



June 27, 2000

Mr. C.R. Herro  
Vulcan Materials Company  
747 East 22<sup>nd</sup> Street, Suite 200  
Lombard, Illinois 60148

RE: Phase II Environmental Investigation Report for the Midwest Metallics Plant at 5300 Joliet Road in McCook, Illinois - STS Project No. 31095-XH

Dear Mr. Herro:

STS Consultants, Ltd. (STS) has completed a Phase II Environmental Investigation (Phase II) of the Midwest Metallics facility at 5300 Joliet Road in McCook, Illinois (subject property). The Phase II was conducted in accordance with the scope of work presented in STS's May 3, 2000 proposal.

#### Background

Information from Vulcan Materials Company (Client) indicates that the subject property formerly contained a locomotive car scrap yard/ reclamation operation. Refer to Figure 1 for a subject property location map. The subject property is currently idle, but contains a considerable amount of abandoned equipment and several buildings. In addition, several railroad spurs traverse the subject property.

STS did not conduct a Phase I Environmental Site Assessment of the subject property prior to the Phase II. All information regarding past use and potential environmental conditions was supplied to STS by Client.

#### Scope of Work

The objective of the Phase II was to investigate areas of concern (AOCs) and generally identify areas on the subject property that have been impacted by environmental contamination and may serve as contaminant sources to the subsurface. The investigation was intended to provide general information on areas that may be environmentally impacted. The investigation was not intended to fully characterize the chemical nature of any contamination encountered, nor was it intended to define the vertical or lateral extent of any contamination encountered. All AOCs, sampling locations, and chemical analytes were designated by Client.

The scope of work included the completion of five transects of soil borings (Figure 2). Each transect consisted of a series of five soil borings. Transect 1 was located adjacent to a large trash pile on the northwest side of the subject property. Transect 2 was located in the vicinity of several used oil, gasoline, and kerosene above-ground storage tanks (ASTs) on

the central portion of the subject property. Transect 3 was east of a 10,000-gallon diesel AST on the central portion of the subject property. Transect 4 was located between two railroad spurs on the southeast side of the subject property. Considerable soil staining indicative of petroleum products is present in this area. Transect 5 was on the west side of the property where a slag-like sandblasting material was present on the ground surface.

The scope of work did not include an investigation of the building interiors.

#### Soil Sampling Activities

On May 4 and 5, 2000 Terra-Trace Environmental Services of Lincolnshire, Illinois completed five 40-foot long transects of soil borings on the subject property using a truck-mounted hydraulic probe. Each transect consisted of five soil borings to approximately six feet below grade. Soil samples were collected continuously at 4-foot intervals. Refer to Figure 2 for transect and soil boring locations.

Decontamination procedures, consisting of cleaning equipment with Alconox soap and deionized water, were used to minimize cross contamination between borings and transects.

A sample representative of surface conditions and a sample at-depth were collected from each boring. The surface samples for each transect (five per transect) were composited. The at-depth samples for each transect (five per transect) were also composited. The surface and at-depth composite samples from each of the five transects were sent under proper chain-of-custody procedures to Test America, Inc. for laboratory analysis. The 10 samples were analyzed for the compounds specified in the Illinois Environmental Protection Agency's (IEPA's) Class II Soil Component of Groundwater Ingestion Exposure Route Values, as specified in the Tiered Approach to Corrective Action Objectives (TACAO). Per Client's request, STS excluded analysis of pesticides and herbicides. All metals on the attached TACAO list were analyzed by the Toxicity Characterization Leachate Procedure (TCLP). Samples for volatile organic compounds (VOCs) were not composited.

Groundwater sampling was not indicated in Client's scope for this investigation; therefore, no groundwater samples were collected or submitted for laboratory analysis.

#### Field Observations

In general, STS encountered a brown and gray mottled silty clay in the subsurface. Occasional sand and gravel was encountered in the clay at varying depths. All soils were dry or moist to the maximum boring depth, with the exception of borings in Transects 3 and 4 (see below).

STS encountered a concrete pad/former building foundation while completing the four southern borings in Transect 2. The concrete was encountered at approximately 4 inches below grade. STS offset the borings northward; away from the gasoline and kerosene ASTs. STS estimates that concrete extends from west of the used oil ASTs in a southerly direction toward the building. It appears that the gasoline and kerosene ASTs are located on the concrete.

The shallow soil samples (0 to 2 feet) collected from Transect 2 exhibited evidence of impact from the nearby used oil ASTs (i.e., staining and slight odor).

STS observed staining and petroleum odor in each soil boring in Transect 3 and Transect 4. Impacted soil was observed to the specified maximum sampling depth (6 feet). To investigate whether petroleum extends to bedrock, STS extended two borings in each transect until refusal was encountered. Limestone bedrock was encountered at 14 feet below grade in Transect 3 and 13 feet below grade in Transect 4. Evidence of petroleum contamination was observed to this depth in each boring. Groundwater entered the borings at approximately 8 feet below grade. STS collected the deep soil sample at approximately 6-8 feet below grade at both transects.

No staining or evidence of petroleum contamination was observed at Transect 5. STS extended two borings in this area to investigate the depth to bedrock. Limestone bedrock was encountered at 8 feet below grade. Groundwater was not encountered in this area.

Boring logs for each transect are attached to this letter.

### Laboratory Results

The analytes detected in soil samples include:

Semi-volatiles: acenaphthene, anthracene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, bis(2-ethylhexyl)phthalate, chrysene, fluoranthene, fluorene, naphthalene, phenanthrene, and pyrene

Volatiles: benzene, n-butylbenzene, sec-butylbenzene, tert-butylbenzene, ethylbenzene, isopropylbenzene, p-isopropyltoluene, n-propylbenzene, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and xylenes

Metals: antimony, barium, boron, cadmium, copper, iron, lead, manganese, nickel, and zinc

The analytical data are attached to this letter, and a summary of all analytes detected is included in Table 1.

STS compared the analytical results to the Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action (TACAO) Tier 1 Soil Remediation Objectives for Residential Properties (SROs) and the TCLP metal concentrations to the RCRA Regulatory Levels. The following analytes were detected above these regulatory concentrations:

Semi-volatiles: acenaphthene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, bis(2-ethylhexyl)phthalate, chrysene, fluorene, naphthalene, and pyrene

Volatiles: benzene, ethylbenzene, toluene, and xylenes

Metals: lead

The semi-volatile compounds present above the SROs were detected in soil from Transect 2 (shallow), Transect 3 (shallow and deep), and Transect 4 (shallow and deep). Volatiles were detected above the SROs only in the Transect 4 (deep) sample. TCLP lead was detected above the RCRA Regulatory Level only in the Transect 5 (shallow) sample. The maximum concentrations of the above analytes, along with the corresponding regulatory levels, are summarized in the table below.

**Analyte Maximum Concentration and Regulatory Level**  
*All concentrations in µg/L*

Analyte	Maximum Concentration	Sample ID	Regulatory Level
Acenaphthene	9,110	T-4 Shallow	570
Benzo(a)anthracene	1,240	T-2 Shallow	0.9
Benzo(b)fluoranthene	1,760	T-2 Shallow	0.9
Benzo(k)fluoranthene	1,240	T-2 Shallow	9.0
Benzo(a)pyrene	1,240	T-2 Shallow	0.09
Bis(2-ethylhexyl)phthalate	2,280	T-2 Shallow	46
Chrysene	1,560	T-2 Shallow	88
Fluorene	17,300	T-3 Shallow	560
Naphthalene	31,400	T-3 Shallow	84
Pyrene	38,900	T-3 Shallow	2,300
Benzene	1,260	T-4 Deep	0.03
Ethylbenzene	24,700	T-4 Deep	13
Toluene	558	T-4 Deep	12
Xylenes	79,200	T-4 Deep	150
Lead	33,100	T-5 Shallow	5,000

### Discussion

A discussion comparing the site observations and laboratory analytical data is provided below for each transect.

#### *Transect 1:*

No SVOCs, VOCs, or TCLP metals were detected above the regulatory concentrations in the composited soil samples from Transect 1. However, minor detections of some VOCs (n-butylbenzene, sec-butylbenzene, isopropylbenzene, and n-propylbenzene) were observed in the deep sample. Although no compounds were detected above regulatory levels, it is STS's opinion that discontinuous areas of impact may be present on this portion of the subject property, especially given that the heterogeneous nature of the trash pile.

#### *Transect 2:*

The shallow soil sample from Transect 2 had several SVOC detections above the SROs (benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, bis(2-ethylhexyl)phthalate, and chrysene). Phenanthrene was also detected in this sample; however, no SRO has been established by the IEPA for this compound. The SVOC detections are indicative of a past release of waste oil from the nearby waste oil ASTs. Because SVOCs were not detected in the deep sample, it is likely that the release does not extend beyond 6 feet below grade.

Given the absence of BTEX compounds and significant concentrations of lead in soil samples from Transect 2, there is no indication that a release from the gasoline AST has occurred. In addition, a concrete pad or former building foundation is present beneath the gasoline and kerosene ASTs in this area and, if competent, would likely prevent surficial spills from migrating to the subsurface. As previously discussed, the concrete pad/ former building foundation does not extend beyond the waste oil ASTs.

#### *Transect 3:*

Both the shallow and deep samples at Transect 3 contained SVOCs at concentrations above the SROs. These SVOCs include acenaphthene (deep only), fluorene, naphthalene (shallow only), and pyrene. Benzene was also detected above the SRO in the deep sample only. Elevated concentrations of other VOCs were detected; however, no SROs have been established by the IEPA for these compounds. The other VOCs detected include n-butylbenzene, sec-butylbenzene, tert-butylbenzene, isopropylbenzene, and n-propylbenzene.

The presence of the above-mentioned compounds in soil from Transect 3 is indicative of a past release of diesel in this area. Many of the compounds can also be found in coal tar. As

previously mentioned, visual and olfactory evidence of contamination was observed at depths greater than the deeper sample (8-10 feet below grade). Therefore, it is likely that diesel contamination extends at a minimum to bedrock, which was observed at 14 feet below grade in this location.

***Transect 4:***

The shallow sample at Transect 4 contained acenaphthene, fluorene, naphthalene, and pyrene above the SROs. The deep sample contained naphthalene above the SRO, and fluoranthene and pyrene were also detected. Phenanthrene was detected at an elevated concentration in both samples; however, no SROs currently exist for this compound.

BTEX compounds were detected in the Transect 4 deep sample at concentrations above the SROs. No other compounds were detected above these levels; however, n-butylbenzene, sec-butylbenzene, isopropylbenzene, p-isopropylbenzene, n-propylbenzene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene were detected at elevated concentrations. No SROs have been established by the IEPA for these compounds.

The presence of certain SVOCs and BTEX compounds in soil from Transect 4 indicates that a release of gasoline commingled with diesel or coal tar has occurred in this area. As with Transect 3, visual and olfactory evidence of contamination was observed to bedrock (12 feet below grade) in this area.

***Transect 5:***

Lead was detected above the RCRA Regulatory Level in the shallow sample from Transect 5. No other compounds were detected above regulatory levels in this area. It is STS's opinion that the elevated lead concentration is likely due to the presence of slag shotblasting material on the ground surface in this area. Given that lead was not detected in the deep sample, it is STS's opinion that significant migration of lead to the subsurface has not occurred.

**Areas of Additional Concern**

During the course of STS's Phase II, several additional areas of concern were noted. Although an investigation of these areas was not included in the scope of this Phase II, it is STS's opinion that an assessment of these areas would be prudent. Photographs of each area of additional concern are attached to this letter.

- STS observed a considerable amount of friable, potentially asbestos-containing material in the trash pile near Transect 1. A survey whether this material contains asbestos should be conducted prior to removing or disturbing the material.
- Several open buckets of used oil were observed adjacent to Transect 1

- Three 5,000-gallon waste oil ASTs were observed on the southwest side of the property, adjacent to a building and two converging railroad spurs. Significant surficial staining was observed in this area. An underground fiberoptic line and underground gas line are also located in this vicinity, and prevented a subsurface investigation.
- A 10-foot by 10-foot area of oil staining was observed by an air compressor on the central portion of the property. It is possible that subsurface impacts exist in this area.
- Significant soil staining was observed at the diesel fueling station adjacent to the railroad tracks on the east side of the property (east of Transect 3). Field observations indicate that the fueling station is connected via underground pipeline to the 10,000-gallon AST adjacent to Transect 3. It is likely that subsurface impacts due to diesel fuel are present in this area as well as at Transect 3.
- An orange, pungent, resin-like substance was observed on the ground surface north of Transect 2. The substance had a gelatinous consistency and did not appear to have migrated into the underlying soil. Nonetheless, STS considers it possible that constituents of the substance may have migrated into the subsurface.
- A large amount of debris, including a 5,000-gallon AST, prevented observation of the soil conditions on the eastern side of the subject property. In addition, the presence of debris precluded drilling with a hydraulic probe in this area. STS considers it probable that additional environmental impacts exist on the eastern side of the property.
- A large electrical transformer with a 3,500-gallon tank was observed on the western side of the subject property. Although the transformer is located on an approximately 50-foot by 50-foot former foundation (covered by soil), it is possible that spills of PCB-containing oil have occurred in this area. Should the soil overlying the former foundation be removed, the soil should be analyzed for PCBs.
- Immediately east of Transect 2, STS observed soil staining in the vicinity of two drums. Given the size of the stained area (4 feet by 4 feet), it is likely that subsurface impacts in this area are minor. However, confirmatory testing should be conducted if excavation is planned for this area.

### Conclusions

STS has completed a Phase II investigation of the Midwest Metallics property at 5300 Joliet Road in McCook, Illinois. The Phase II investigation was intended to generally assess the presence of contamination in five areas on the subject property.

Results of the Phase II indicate that the subject property is underlain by a silty clay to at least 14 feet below grade (the maximum soil boring depth). Groundwater was not sampled during the investigation.

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Results of laboratory analysis of soil samples show that several SVOCs, BTEX compounds, and lead are present above regulatory levels in soil collected from Transects 2, 3, 4, and 5. Several VOCs were also detected in soil from these borings; however, regulatory levels for these compounds have not been established by the IEPA.

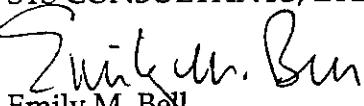
STS recommends that additional investigations be conducted in the vicinity of Transects 2, 3, and 4, should Client wish to delineate the extent of subsurface impacts identified in these areas. In addition, it is STS's opinion that additional impacts could exist near Transect 1 due to the heterogeneous nature of the adjacent trash pile.

Several additional areas of concern were noted during STS's field investigation. These include areas of potentially asbestos-containing material, surficial soil staining in several areas, an unidentified resin-like substance, and the potential for PCB oil in surficial soil. STS recommends additional investigation of these areas if excavation is planned.

If you have any questions regarding this information, or if we may be of further assistance, please do not hesitate to contact the undersigned at (847) 279-2500.

Sincerely,

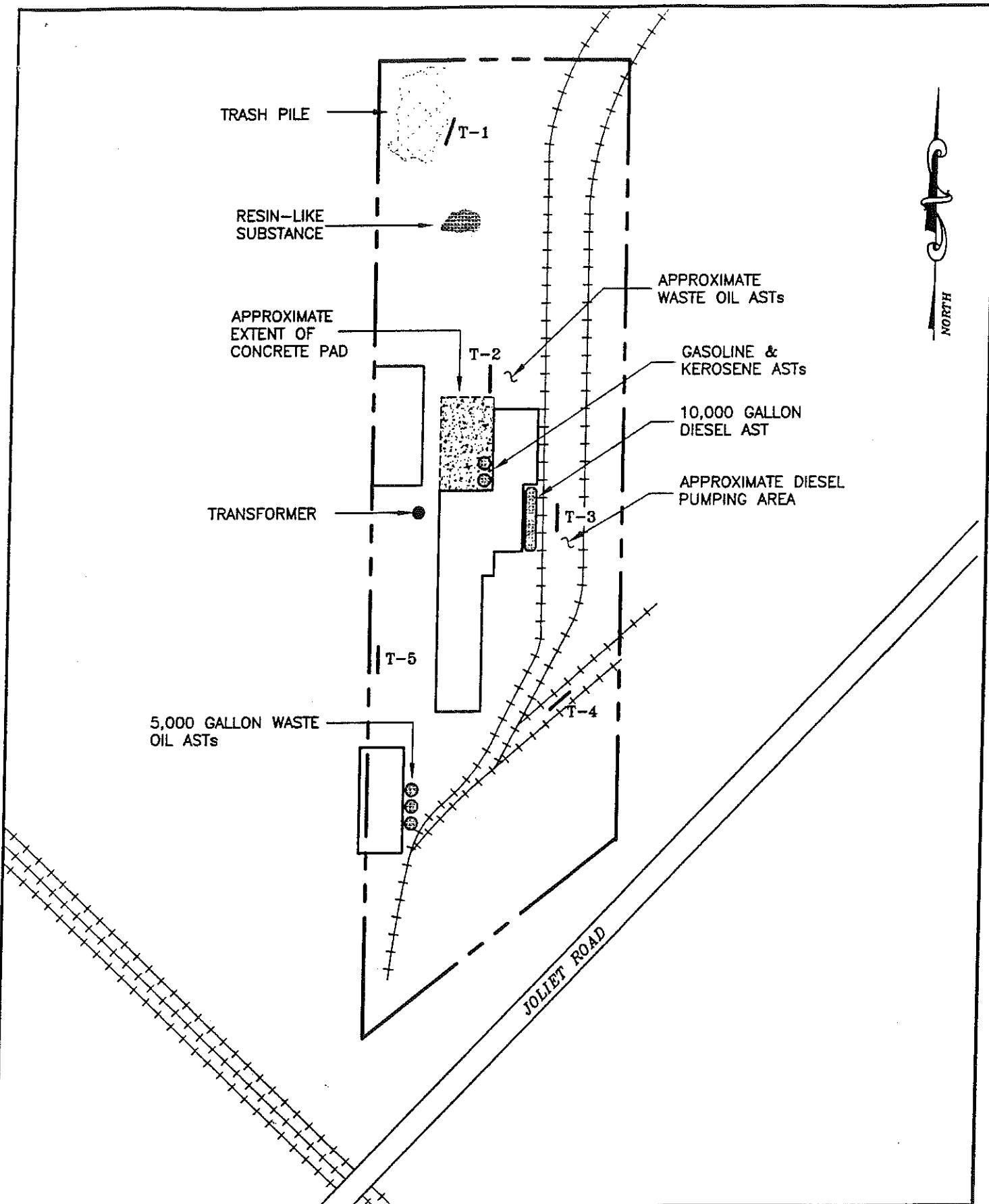
STS CONSULTANTS, LTD.

  
Emily M. Bell

Project Scientist

  
Richard G. Berggreen, C.P.G.  
Principal

Attachments



G1-TRANSECT.dwg  
06/29/2000 10:

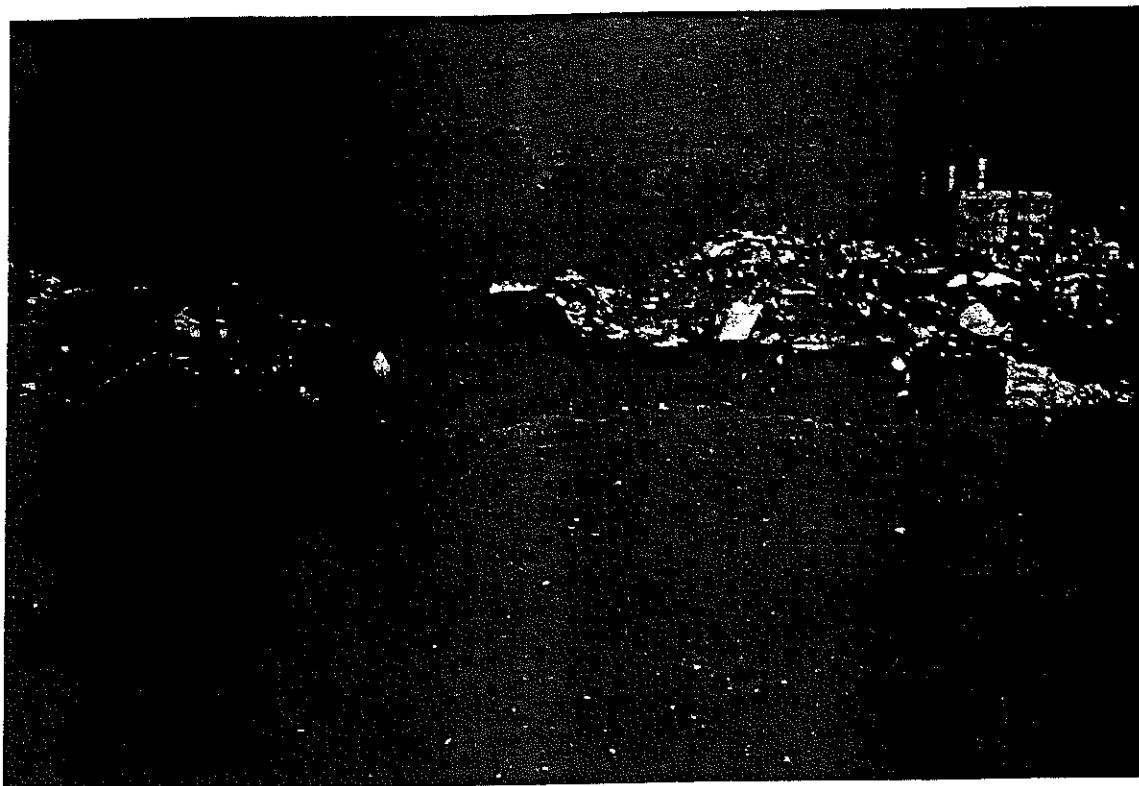


STS Consultants Ltd.  
Consulting Engineers

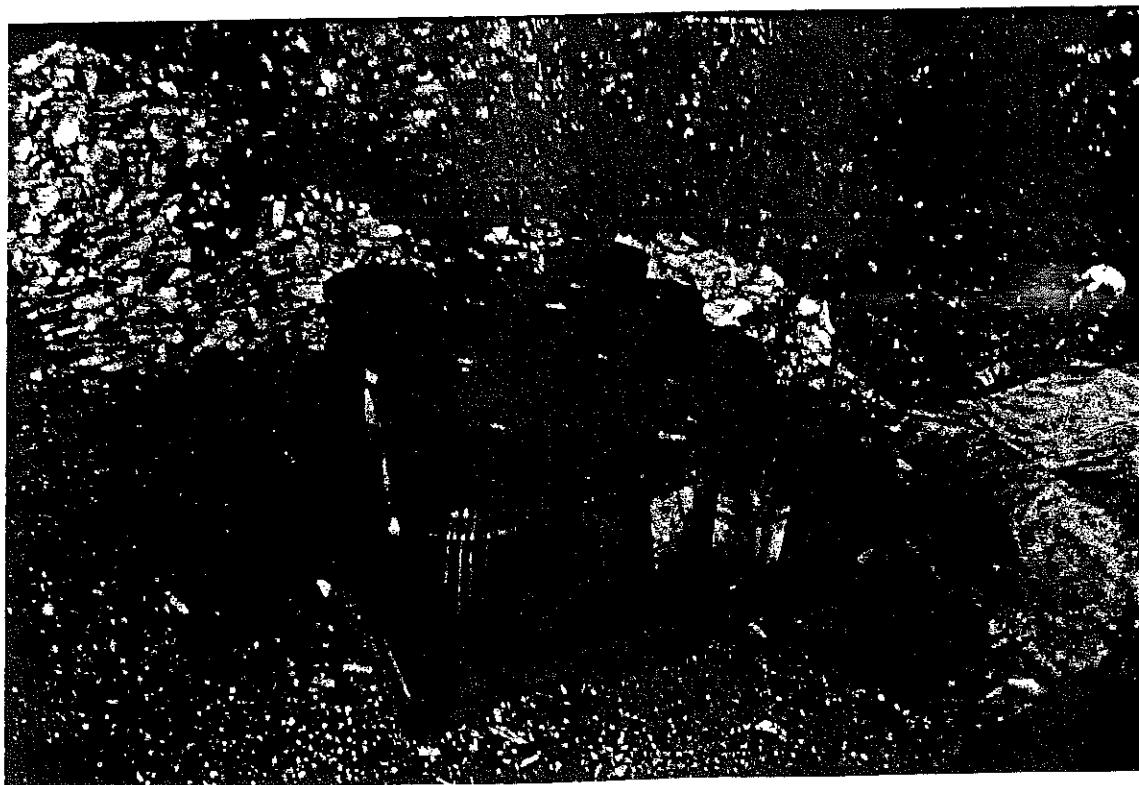
SOIL TRANSECT LOCATION DIAGRAM  
MIDWEST METALLICS SITE  
McCOOK, ILLINOIS

DRAWN BY	KKB	6-22-00
CHECKED BY	EMB	6-22-00
APPROVED BY	RGB	6-22-00
CADFILE	SCALE	
G1-TRANSECT.dwg	1"=200'±	
STS PROJECT NO.	FIGURE NO.	
31095-XH		

Phase II Investigation  
Midwest Metallics, McCook, Illinois (STS Project No. 31095-XH)  
Photo date: May 4-5, 2000

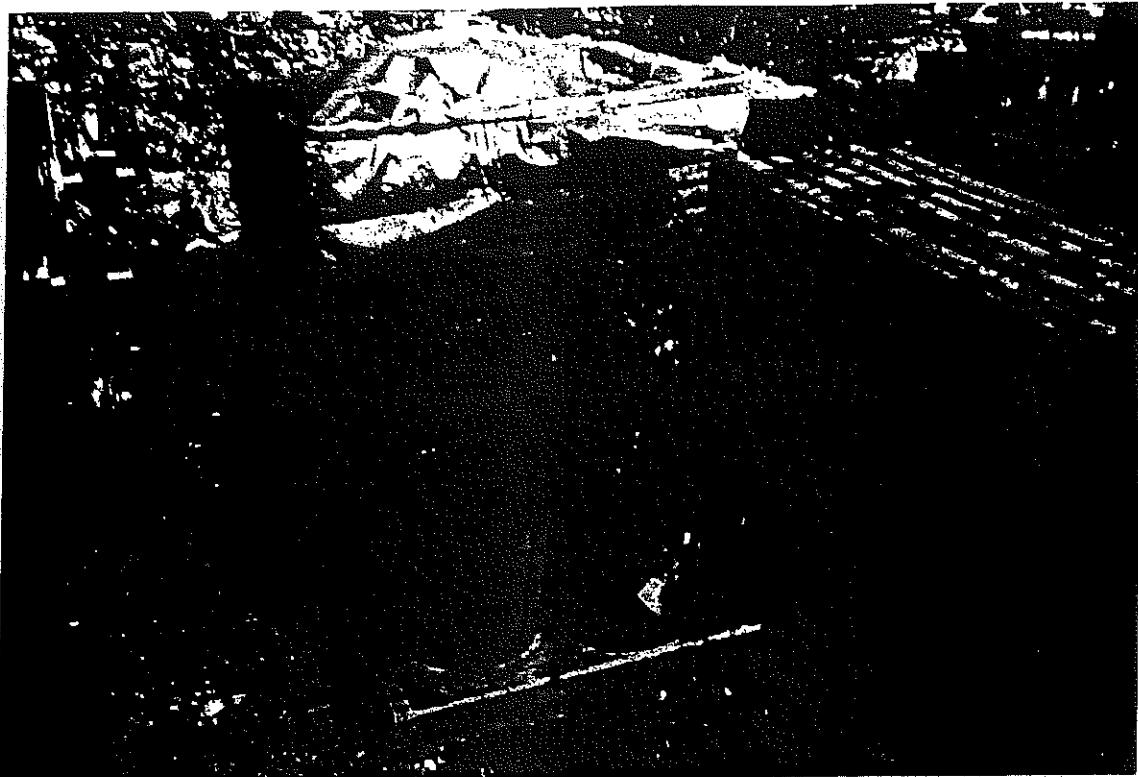


1. VIEW OF TRANSECT 1 AND THE ADJACENT TRASH PILE: FACING NORTHWEST

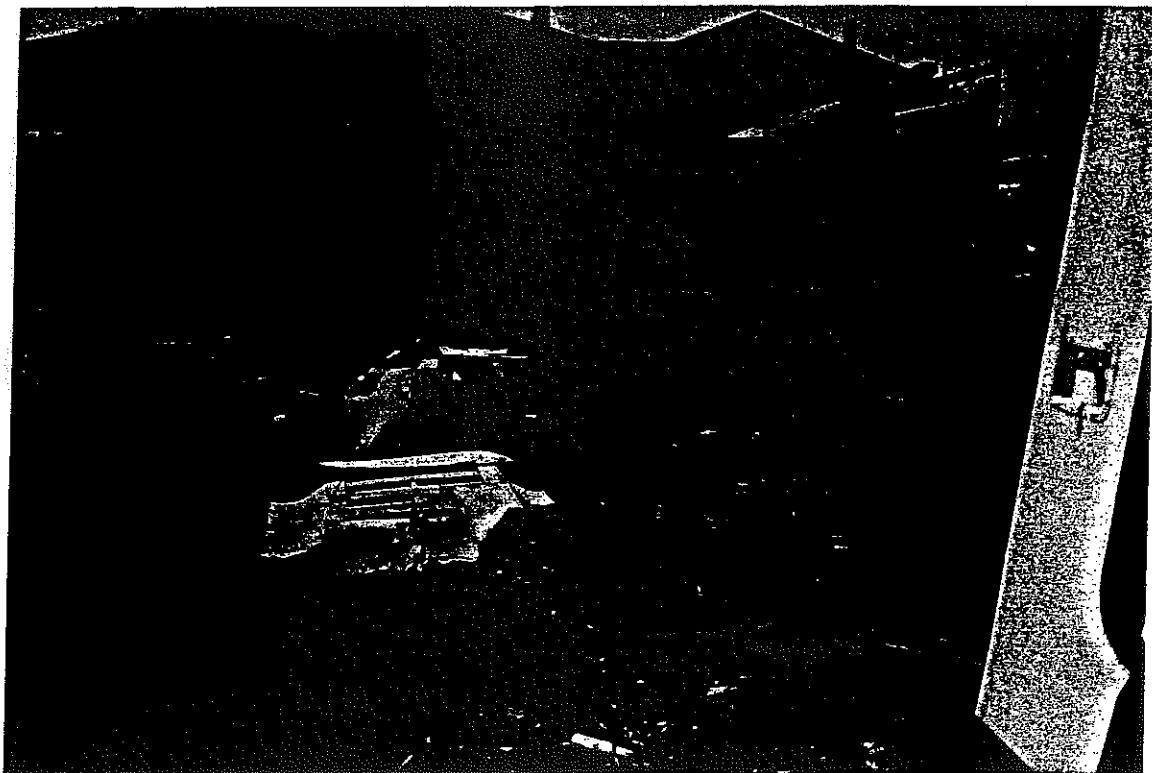


2. VIEW OF OPEN BUCKETS OF OIL ADJACENT TO TRASH PILE

Phase II Investigation  
Midwest Metallics, McCook, Illinois (STS Project No. 31095-XH)  
Photo date: May 4-5, 2000



3. VIEW OF OPEN BUCKETS OF OIL ADJACENT TO TRASH PILE

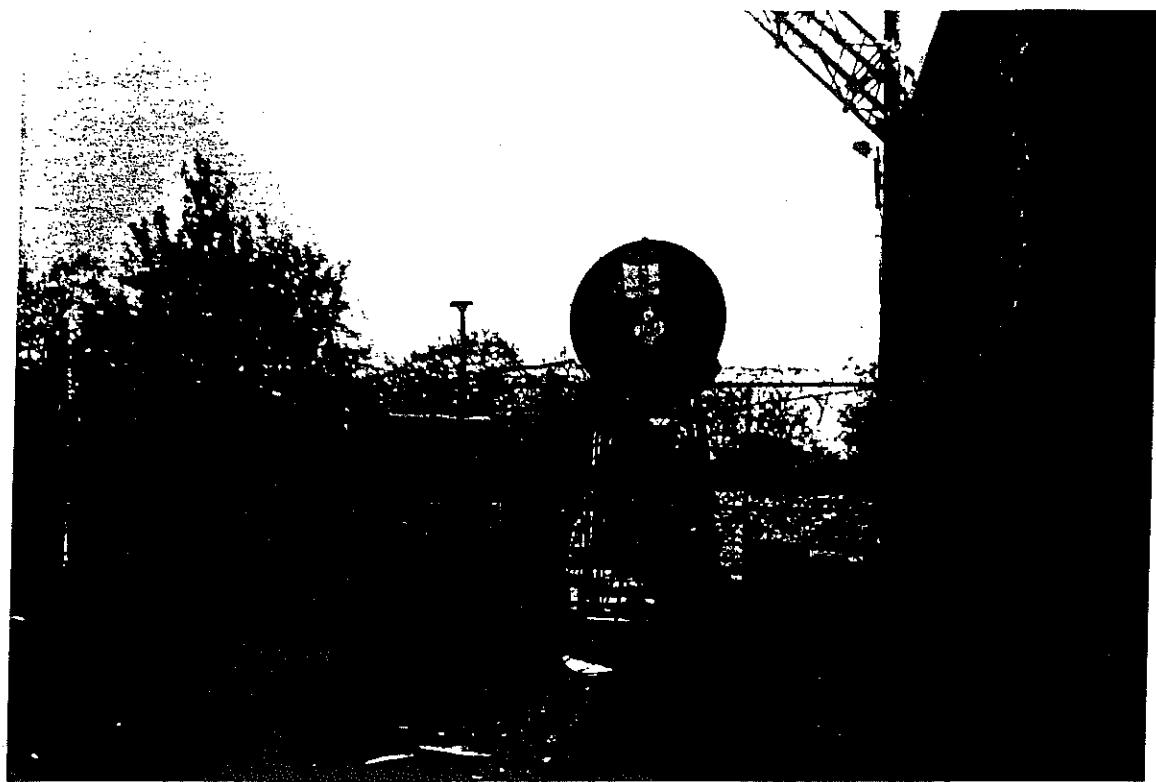


4. VIEW OF TRANSECT 2 (BEFORE OFFSETTING 4 BORINGS)

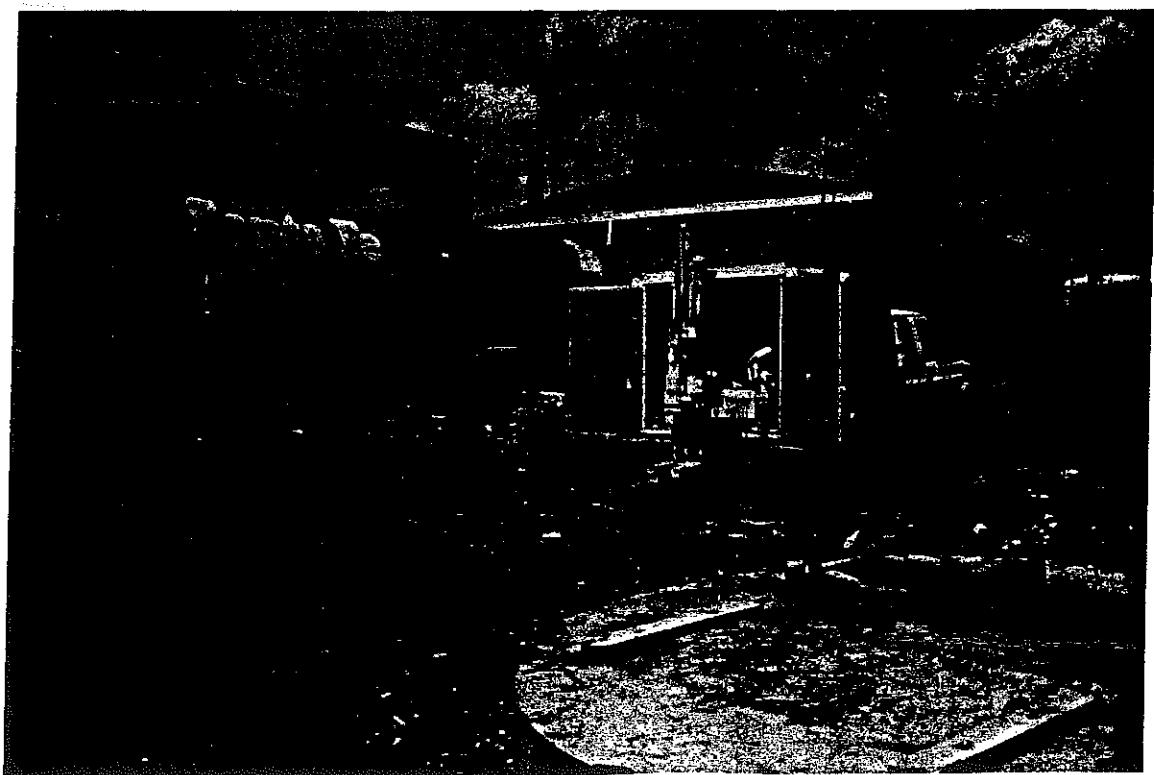
Phase II Investigation

Midwest Metallics, McCook, Illinois (STS Project No. 31095-XH)

Photo date: May 4-5, 2000

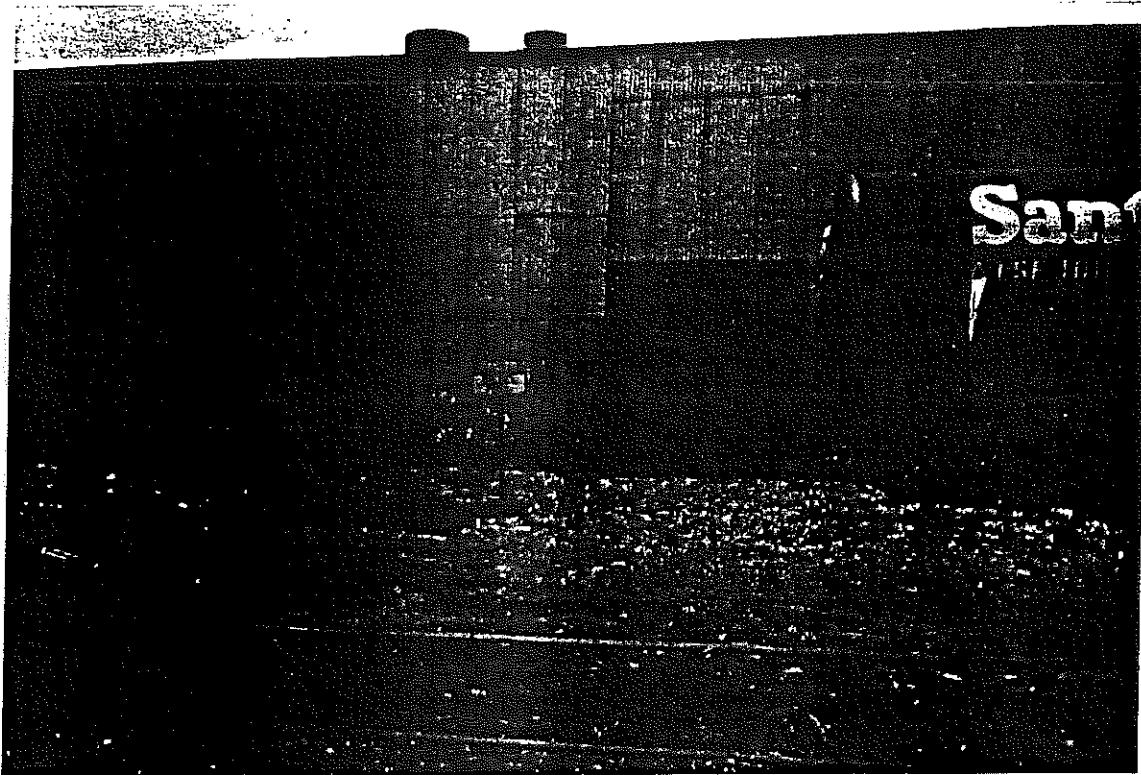


5. GASOLINE AND KEROSENE ASTS ADJACENT TO TRANSECT 2

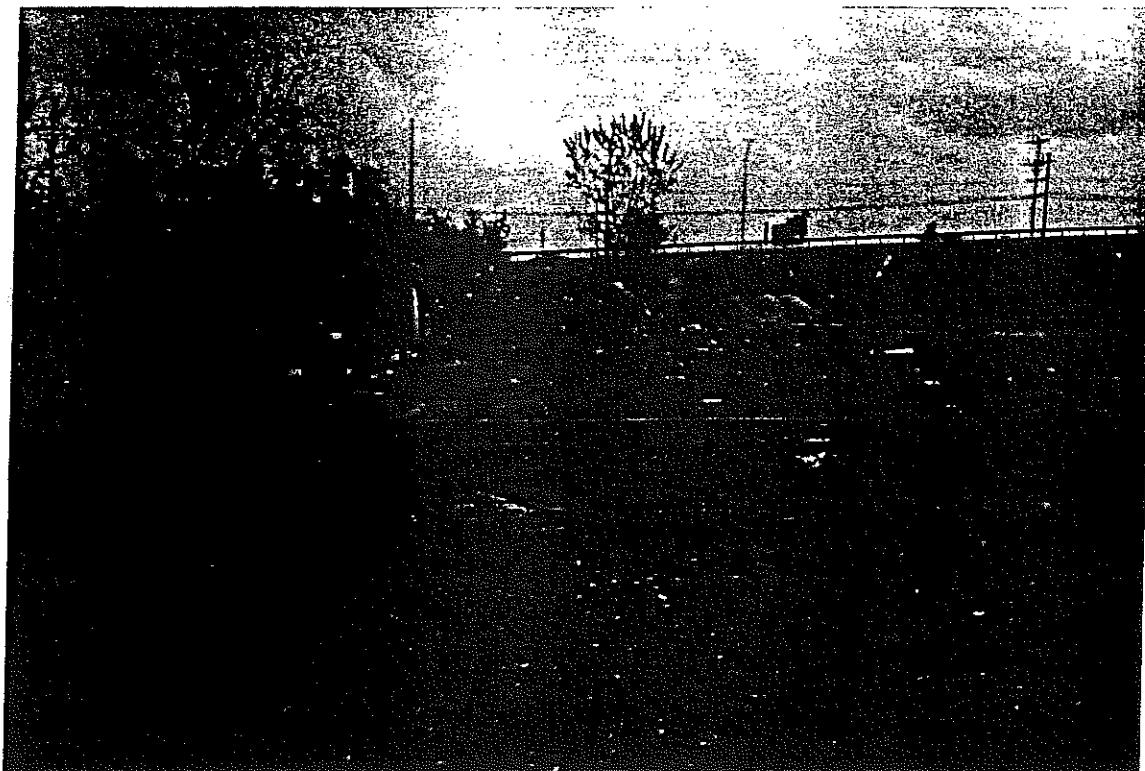


6. VIEW OF THE DIESEL AST ADJACENT TO TRANSECT 3

Phase II Investigation  
Midwest Metallics, McCook, Illinois (STS Project No. 31095-XH)  
Photo date: May 4-5, 2000



7. VIEW OF THE PUMP FOR THE UNDERGROUND DIESEL PIPING SYSTEM BY TRANSECT 3

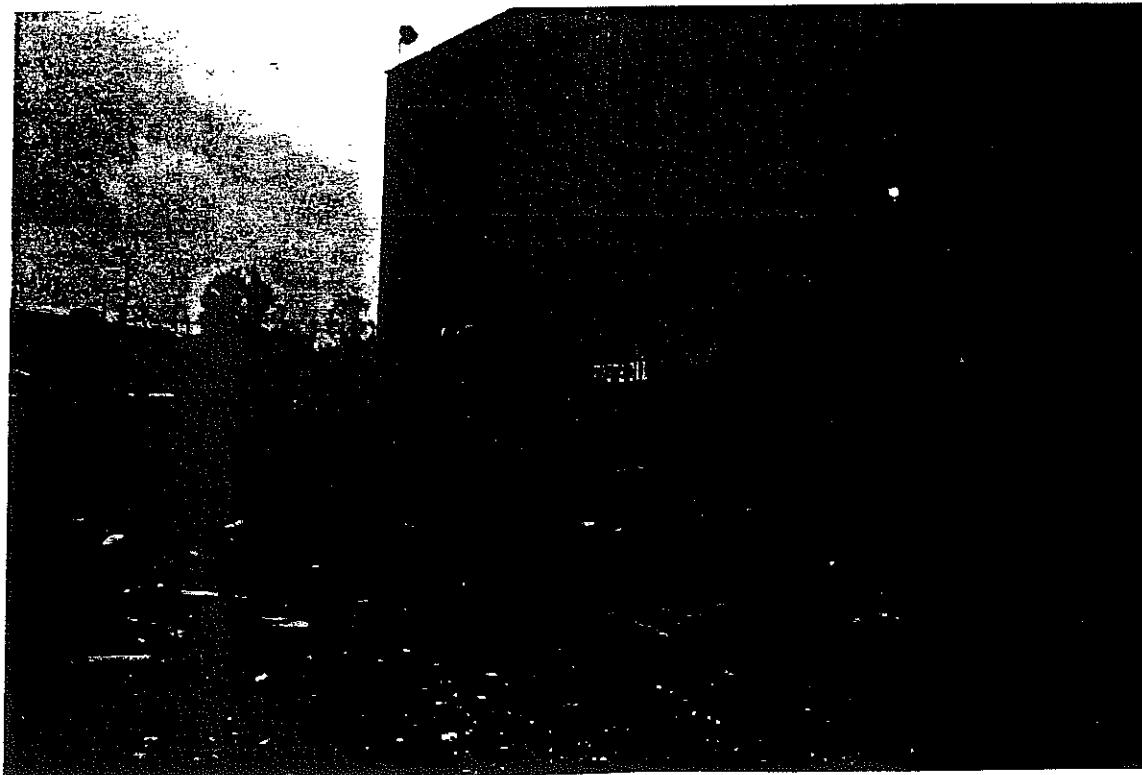


8. VIEW OF TRANSECT 4, FACING SOUTH

Phase II Investigation  
Midwest Metallics, McCook, Illinois (STS Project No. 31095-XH)  
Photo date: May 4-5, 2000



9. VIEW OF TRANSECT 5, FACING SOUTH/SOUTHEAST

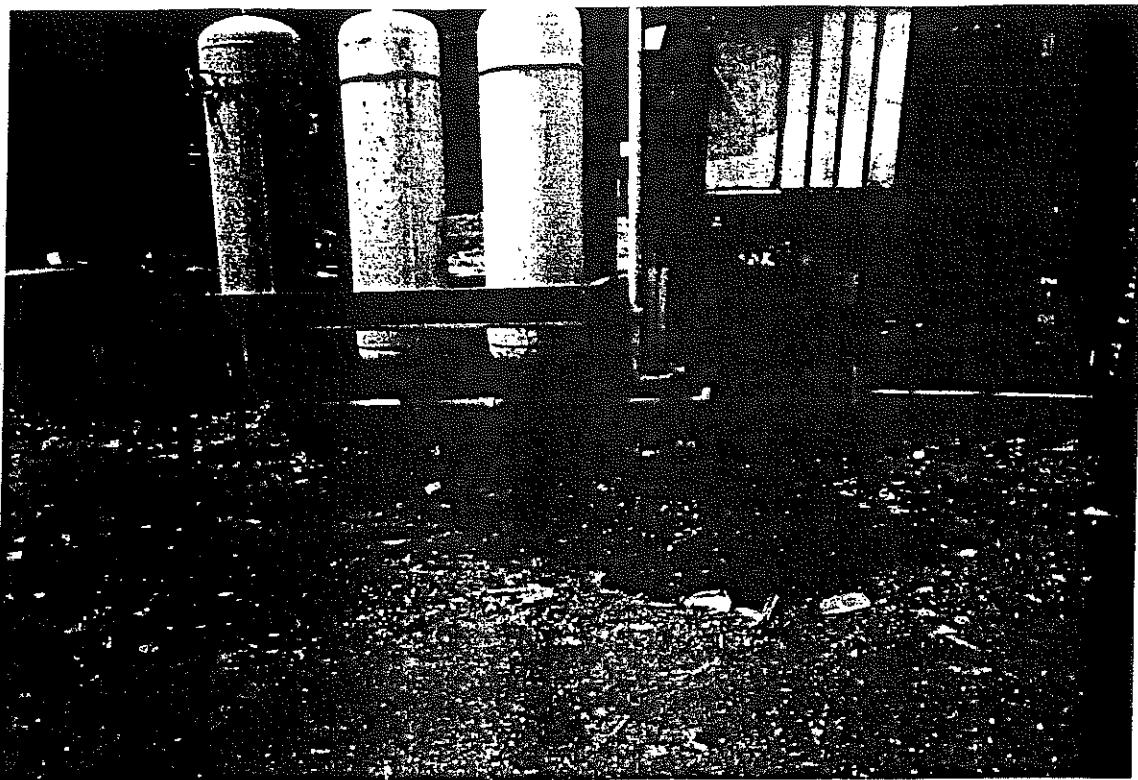


10. ADDITIONAL AREA OF CONCERN: THREE 5,000-GALLON WASTE OIL ASTS

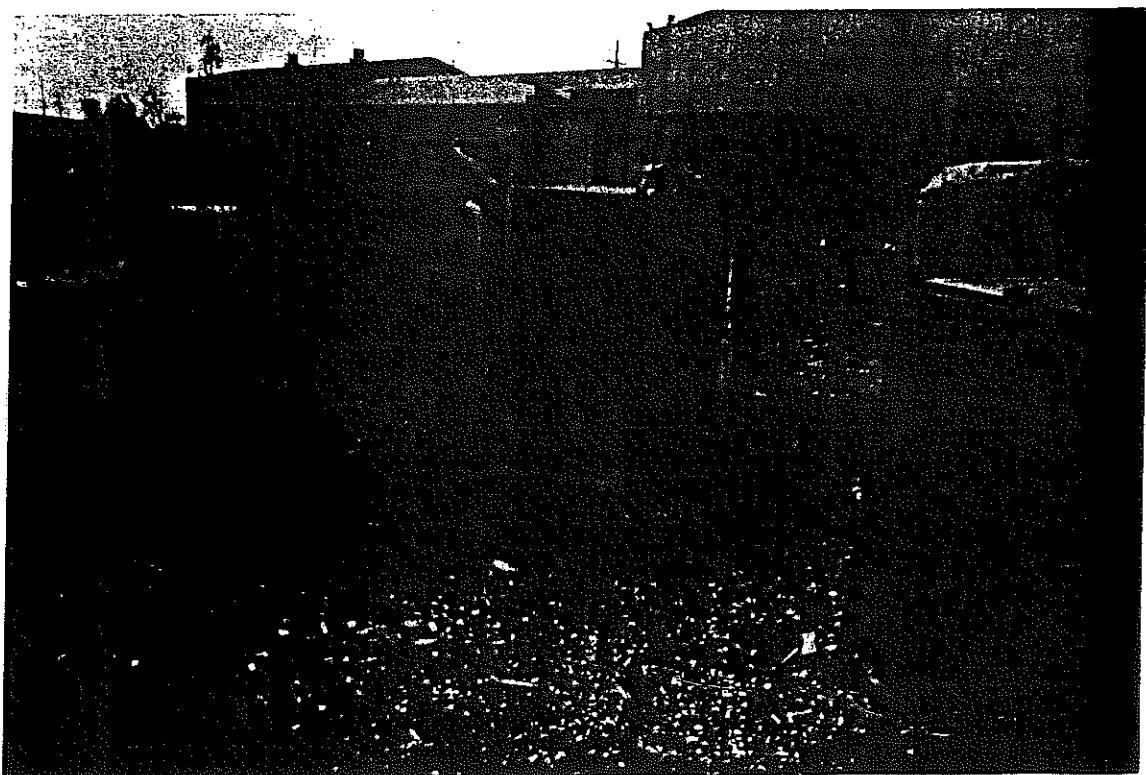
Phase II Investigation

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11. ADDITIONAL AREA OF CONCERN: OIL STAINING IN THE VICINITY OF THE AIR COMPRESSOR



12. ADDITIONAL AREA OF CONCERN: DIESEL PUMPING AREA

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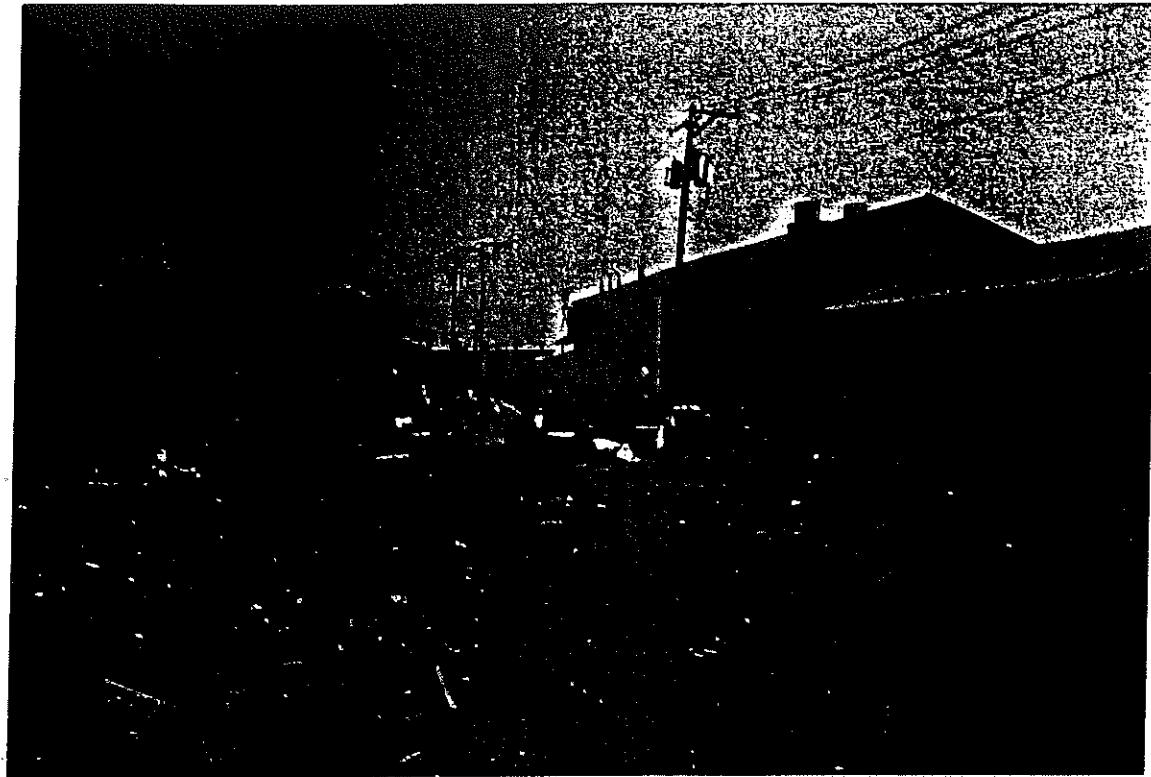


13. ADDITIONAL AREA OF CONCERN: RESIN-LIKE SUBSTANCE



14. ADDITIONAL AREA OF CONCERN: DEBRIS ON THE EAST SIDE OF THE PROPERTY

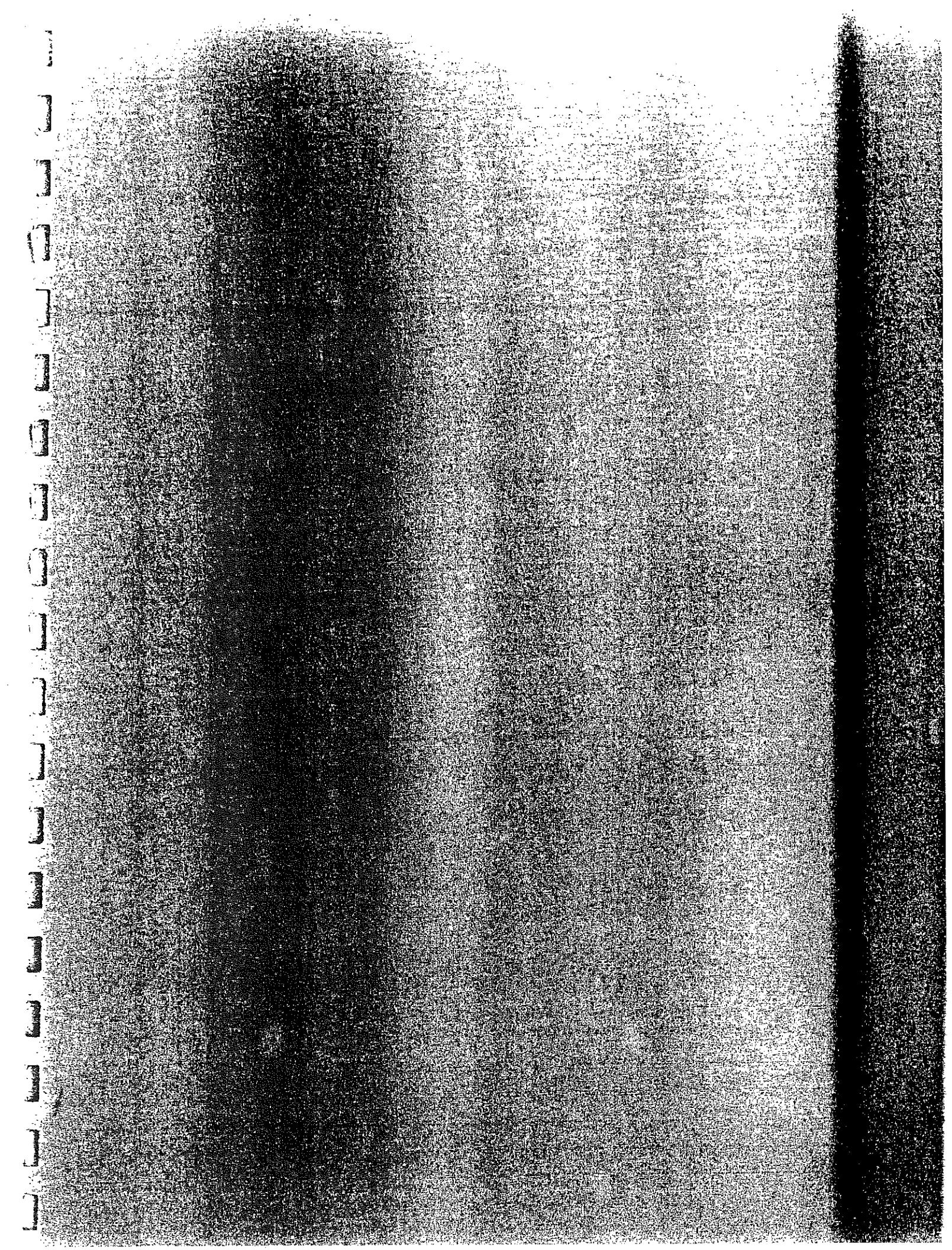
Phase II Investigation  
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Photo date: May 4-5, 2000



15. ADDITIONAL AREA OF CONCERN: TRANSFORMER ON THE WEST SIDE OF THE PROPERTY



16. ADDITIONAL AREA OF CONCERN: OIL STAINING NEAR TRANSECT 2





**STS Consultants Ltd.**

The stratification lines represent the approximate boundary lines between soil types; in situ, the transition may be gradual.

BORING LOG 31095-XH.GPJ STS.GDT 6/29/00

OWNER <b>Vulcan Materials</b>				LOG OF BORING NUMBER <b>T-2</b>			
PROJECT NAME <b>Midwest Metallics</b>				ARCHITECT-ENGINEER			
SITE LOCATION <b>McCook, IL</b>							
DEPTH(FT)	ELEVATION(FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	
			HP			SURFACE ELEVATION	
			HP			Sandy topsoil - brown - desiccated Note: No odor Silty clay, little sand - stained - medium - moist Note: Petroleum odor.	
2.5			HP				
5.0			HP			Silty clay - brown - medium - moist Note: No odor.	
6.0						End of Boring Borehole backfilled.	

The stratification lines represent the approximate boundary lines between soil types: in situ, the transition may be gradual.

WL	BORING STARTED 5/4/00	STS OFFICE Chicago Area - 01	
WL	BORING COMPLETED 5/4/00	ENTERED BY KKB	SHEET NO. 1 OF 1
WL	RIG/FOREMAN Hydraulic Probe/Bell	APP'D BY EMB	STS JOB NO. 31095-XH



STS Consultants Ltd.

OWNER  
**Vulcan Materials**  
PROJECT NAME  
**Midwest Metallics**

LOG OF BORING NUMBER **T-3**

SITE LOCATION <b>McCook, IL</b>				UNCONFINED COMPRESSIVE STRENGTH TONS/FT. <sup>2</sup> 1 2 3 4 5							
DEPTH(FT)	ELEVATION(FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL		UNIT DRY WT. LBS/FT. <sup>3</sup>	PLASTIC LIMIT % X — ● — △ 10 20 30 40 50	WATER CONTENT % — ● — — 10 20 30 40 50	LIQUID LIMIT % — — △ — 10 20 30 40 50
						SURFACE ELEVATION					
			HP			Sandy topsoil - brown - desiccated  Note: No odor. Silty clay - stained - medium - moist  Note: Strong odor.					
2.5			HP								
5.0			HP								
7.5			HP			Silty clay - brownish gray stained - medium - moist to wet  Note: Odor.					
10.0			HP								
12.5			HP								
14.0						End of Boring Borehole grouted.					

The stratification lines represent the approximate boundary lines between soil types: in situ, the transition may be gradual.

WL	BORING STARTED 5/4/00	STS OFFICE Chicago Area - 01	
WL	BORING COMPLETED 5/4/00	ENTERED BY KKB	SHEET NO. 1 OF 1
WL	RIG/FOREMAN Hydraulic Probe/Bell	APP'D BY EMB	STS JOB NO. 31095-XH

STS Consultants Ltd.				OWNER <b>Vulcan Materials</b>	LOG OF BORING NUMBER <b>T-4</b>
PROJECT NAME <b>Midwest Metallics</b>				ARCHITECT-ENGINEER	
SITE LOCATION <b>McCook, IL</b>					
DEPTH(FT)	ELEVATION(FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	DESCRIPTION OF MATERIAL
					SURFACE ELEVATION
			HP		Sandy topsoil - brown with some staining - desiccated  Note: No odor.
2.5			HP		Silty clay, little sand - black stained - medium - moist  Note: Strong petroleum odor.
5.0			HP		
7.5			HP		
10.0			HP		Silty clay, little sand - black stained - medium - moist to wet  Note: Odor; free product visible.
12.5			HP		
13.0					End of Boring Borehole grouted.

The stratification lines represent the approximate boundary lines between soil types: in situ, the transition may be gradual.

WL	BORING STARTED 5/4/00	STS OFFICE <b>Chicago Area - 01</b>
WL	BORING COMPLETED 5/4/00	ENTERED BY <b>KKB</b> SHEET NO. <b>1</b> OF <b>1</b>
WL	RIG/FOREMAN <b>Hydraulic Probe/Bell</b>	APPD BY <b>EMB</b> STS JOB NO. <b>31095-XH</b>

 STS Consultants Ltd.		OWNER <b>Vulcan Materials</b>		LOG OF BORING NUMBER <b>T-5</b>	
		PROJECT NAME <b>Midwest Metallics</b>		ARCHITECT-ENGINEER	
SITE LOCATION <b>McCook, IL</b>					<div style="text-align: center;"> <span style="font-size: 2em;">○</span> UNCONFINED COMPRESSIVE STRENGTH            TONS/FT.<sup>2</sup>            1      2      3      4      5         </div> <div style="text-align: center;">           PLASTIC LIMIT %   — ● — △            10    20    30    40    50         </div> <div style="text-align: center;">           STANDARD PENETRATION BLOWS/(FT)   10    20    30    40    50         </div>
DEPTH(FT)	ELEVATION	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	
					SURFACE ELEVATION
			HP		Sand - black - very loose - desiccated  <u>Note: No odor; slag-like.</u> <u>Silty clay - brown - stiff - moist</u>  Note: No odor.
2.5			HP		
5.0			HP		
7.5					
8.0					
					End of Boring Borehole backfilled.
The stratification lines represent the approximate boundary lines between soil types: in situ, the transition may be gradual.					
WL		BORING STARTED 5/5/00		STS OFFICE <b>Chicago Area - 01</b>	
WL		BORING COMPLETED 5/5/00		ENTERED BY KKB	SHEET NO. 1 OF 1
WL		RIG/FOREMAN <b>Hydraulic Probe/Bell</b>		APP'D BY EMB	STS JOB NO. <b>31095-XH</b>

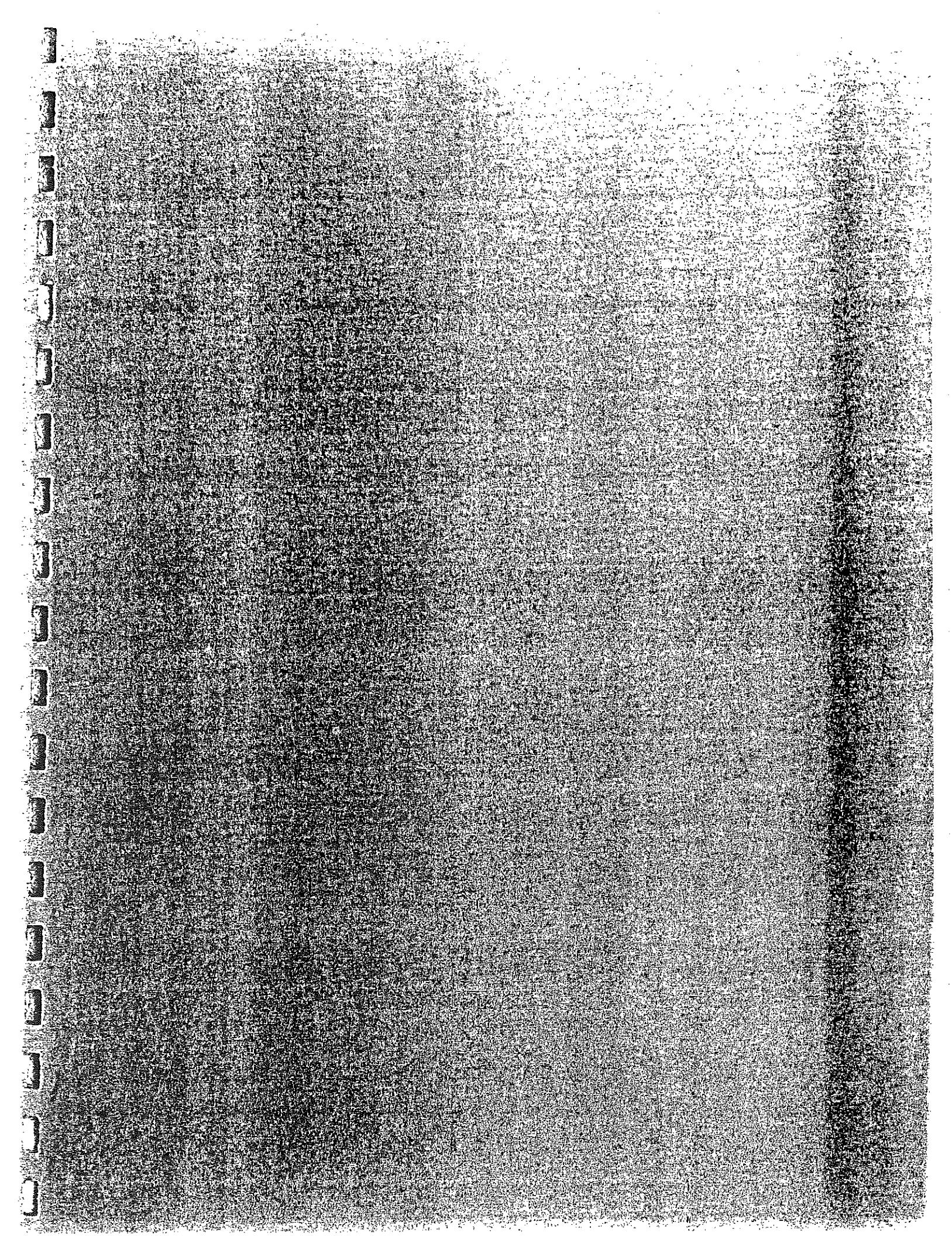


Table 1  
Midwest Metallics  
Soil Analytical Results

All concentrations in ug/g unless otherwise noted

Analytes	TAC(At) Soil Remediation Objectives for Residential Properties						T-1						T-2						T-3						T-4						T-5					
	Ingestion	Migration to Groundwater	Migration to Surface Water	Shallow	Deep																															
<b>Semi-Volatile Compounds</b>																																				
4-Chloro-3-methylphenol	NC	NC	NC	BQL	BQL	BQL																														
2-Chlorophenol	NC	NC	NC	BQL	BQL	BQL																														
2,4-Dichlorophenol	NC	NC	NC	BQL	BQL	BQL																														
2,4-Dimethylphenol	NC	NC	NC	BQL	BQL	BQL																														
2,5-Dinitrophenol	NC	NC	NC	BQL	BQL	BQL																														
2-Methyl-4,6-dinitrophenol	NC	NC	NC	BQL	BQL	BQL																														
2-Nitrophenol	NC	NC	NC	BQL	BQL	BQL																														
4-Nitrophenoxy	NC	NC	NC	BQL	BQL	BQL																														
Penachlorophenol	NC	NC	NC	BQL	BQL	BQL																														
Phenol	NC	NC	NC	BQL	BQL	BQL																														
2,4,6-Trichlorophenol	NC	NC	NC	BQL	BQL	BQL																														
A-cumophenone	NC	NC	NC	BQL	BQL	BQL																														
Acenaphthylene	NC	NC	NC	BQL	BQL	BQL																														
Anthracene	NC	NC	NC	BQL	BQL	BQL																														
Benz(a)anthracene	0.9	0.9	0.9	NC	NC	NC																														
Benz(b)anthracene	0.9	0.9	0.9	NC	NC	NC																														
Benz(k)fluoranthene	0.9	0.9	0.9	NC	NC	NC																														
Benzofluoranthene	0.9	0.9	0.9	NC	NC	NC																														
Benzaldehyde	0.09	0.09	0.09	NC	NC	NC																														
Benzyl butyl phthalate	0.09	0.09	0.09	NC	NC	NC																														
Bis(2-chloroethoxy)methane	0.9	0.9	0.9	NC	NC	NC																														
Bis(2-chloroethyl)ether	0.06	0.06	0.06	NC	NC	NC																														
Bis(2-chlorophenoxy)ether	0.06	0.06	0.06	NC	NC	NC																														
4-Bromobiphenyl phenyl ether	0.09	0.09	0.09	NC	NC	NC																														
2-Chromophenol	0.09	0.09	0.09	NC	NC	NC																														
4-Chlorophenyl Phenyl ether	0.09	0.09	0.09	NC	NC	NC																														
Citrysene	0.83	0.83	0.83	NC	NC	NC																														
Dibenz(a,h)anthracene	0.09	0.09	0.09	NC	NC	NC																														
Di-t-butyl phthalate	0.09	0.09	0.09	NC	NC	NC																														
1,2-Dichlorobenzene	0.09	0.09	0.09	NC	NC	NC																														
1,3-Dichlorobenzene	0.09	0.09	0.09	NC	NC	NC																														
1,4-Dichlorobenzene	0.09	0.09	0.09	NC	NC	NC																														
1,3,5-Dichlorobenzene	1	1	1	NC	NC	NC																														
Diethyl phthalate	63.000	63.000	63.000	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07					
Dimethyl Phthalate	0.09	0.09	0.09	NC	NC	NC																														
2,4-Dinitrotoluene	6.19	6.19	6.19	NC	NC	NC																														
2,6-Dinitrotoluene	0.9	0.9	0.9	NC	NC	NC																														
Di-n-Butyl phthalate	1.600	1.600	1.600	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007							
Fluoranthene	3.100	3.100	3.100	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4						
Hexachlorobutadiene	0.559	0.559	0.559	10	10	10	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400					
Hexachlorocyclooctatetraene	0.73	0.73	0.73	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5						
Indeno[1,2,3- <i>cd</i> ]pyrene	0.69	0.69	0.69	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005						
Isophorone	15.600	15.600	15.600	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005						
Naphthalene	3.100	3.100	3.100	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4						
Nitrobenzene	3.9	3.9	3.9	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21				
N-Nitrosodimethylamine	0.69	0.69	0.69																																	

**Table 1**  
**Midwest Metallo-  
Soil Analytical Re-**  
**port**

All contestants in weeks unless otherwise noted

Table I  
Midwest Metallics  
Soil Analytical Results

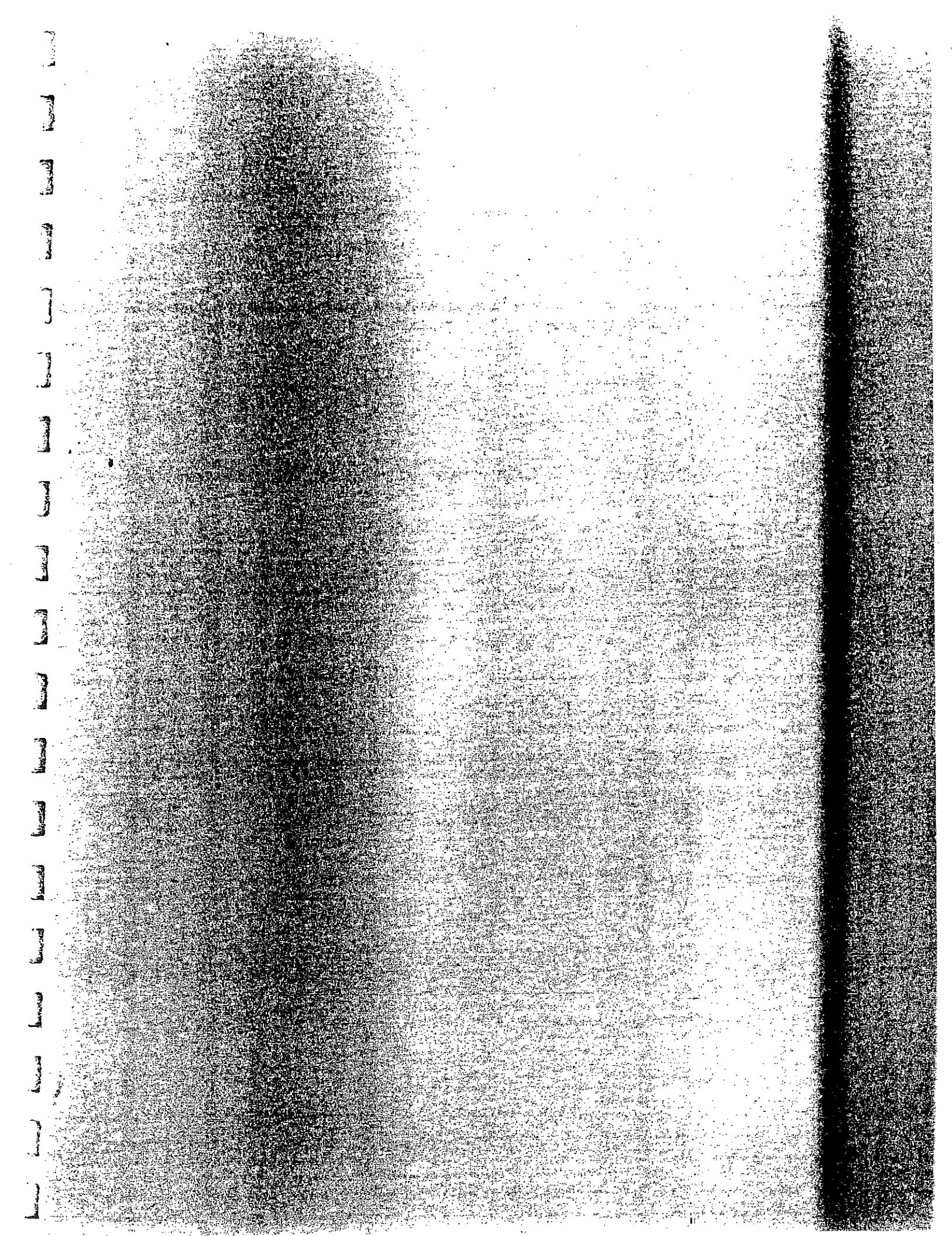
All concentrations in ug/kg unless otherwise noted

Analytes	TACAO		Soil Remediation Objectives for Residential Properties		T-1		T-2		T-3		T-4		T-5		
	Ingestion	Inhalation	Migration to Ground water	Shallow	Deep	0-2	4-6	0-2	6-8	0-2	4-6	0-2	Shallow	Deep	Deep
<b>Semi-Volatile Compounds</b>															
1,1,2,2-Tetrachloroethane	NC	NC	NC	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
1,1,2,2-Tetrachloroethene	NC	NC	NC	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Toluene	12	12	11	0.06	BQL	BQL	BQL	BQL							
1,2,3-Trichlorobenzene	16,000	650	12	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	558	BQL	BQL	BQL
1,2,4-Trichlorobenzene	NC	NC	NC	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
1,1,1-Trichloroethane	3,200	5	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
1,1,2-Trichloroethane	1,200	1,200	1,200	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Trichloroethene	310	310	602	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Trichloroethane	5	5	0.06	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Trichloroethane	NC	NC	NC	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
1,2,3-Trichloropropene	NC	NC	NC	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
1,2,4-Trichlorobenzene	NC	NC	NC	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	42,900	BQL	BQL	BQL
1,3,5-Trimethylbenzene	NC	NC	NC	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10,900	BQL	BQL	BQL
Vinyl acetate	78,000	1,000	1,000	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Vinyl chloride	0.3	0.3	0.03	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Xylenes (total)	169,000	419	419	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Other				BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	75,200	BQL	BQL
Ethyl alcohol	NC	NC	NC	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
TCLP Chloride	NC	NC	NC	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
TCLP Cyanide	NC	NC	NC	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
TCLP Fluoride	NC	NC	NC	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
TCLP Nitrate	NC	NC	NC	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
TCLP Sulfide	NC	NC	NC	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
<b>RCRA Regulated Level (mg/L)</b>															
Antimony	NC	NC	NC	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Arsenic	NC	NC	NC	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Barium	180	0.270	0.270	0.448	0.635	1.68	0.323	0.461	0.613	0.405	0.672	0.770	BQL	BQL	BQL
Beryllium	NC	NC	NC	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Boron	NC	NC	NC	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Cadmium	1.0	1.0	0.021	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.230	0.170	0.180	0.240	BQL
Chromium	5	5	0.001	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.017	BQL	0.050	BQL	BQL
Cobalt	NC	NC	NC	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Copper	NC	NC	NC	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Iron	180	0.540	0.540	0.448	0.635	1.68	0.323	0.461	0.613	0.405	0.672	0.770	BQL	BQL	BQL
Lead	5	5	0.458	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.10	2.35	2.50	BQL	BQL
Manganese	NC	NC	0.938	0.938	4.93	9.11	2.29	3.10	7.05	2.11	3.11	3.31	BQL	BQL	BQL
Mercury	0.3	0.3	0.03	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Nickel	NC	NC	0.170	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Selenium	1	1	0.030	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.800	0.800	BQL	BQL	BQL
Thallium	NC	NC	6.851	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Zinc	NC	NC	0.100	0.100	11.1	0.100	12.2	0.100	2.42	0.100	102	1040	1040	BQL	BQL

Shaded values represent concentrations that exceed the more restrictive Remediation Objective

BQL: Below Quantitation Limit

NC: No Remediation Criteria have been established by the EPA and/or the U.S. EPA



# TestAmerica

INCORPORATED

Ms. Emily Bell  
STS CONSULTANTS, LTD  
750 Corporate Woods  
Parkway  
Vernon Hills, IL 60061-3153

05/22/2000

Job Number: 00.04715

IEPA Cert. No.: 100221  
WDNR Cert. No.: 999447130

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of TestAmerica for analysis.

Project Description: 31095-XH

Sample Number	Sample Description	Date Taken	Date Received
579045	T-1 Deep	05/04/2000	05/05/2000
579046	T-2 Deep	05/04/2000	05/05/2000
579047	T-3 Deep	05/04/2000	05/05/2000
579048	T-4 Deep	05/04/2000	05/05/2000
579049	T-5 Deep	05/05/2000	05/05/2000
579050	T-1 Surface	05/04/2000	05/05/2000
579051	T-2 Surface	05/04/2000	05/05/2000
579052	T-3 Surface	05/04/2000	05/05/2000
579053	T-4 Surface	05/04/2000	05/05/2000
579054	T-5 Surface	05/05/2000	05/05/2000

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow TestAmerica Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. TestAmerica has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

*Mary Pearson*

Mary Pearson  
Project Manager

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000

Sample No. : 579045

Job No.: 00.04715

Sample Description: T-1 Deep  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	79.2	#		0.1	05/15/2000 05/09/2000	pjf kmb	SM 2540 SW 1311
TCLP-Metals Extraction	Leached						
TCLP-Antimony, GFAA	<0.020		mg/L	0.020	05/15/2000	jap	SW 7041
TCLP-Arsenic, GFAA	<0.100		mg/L	0.0050	05/15/2000	jap	SW 7061
TCLP-Barium, ICP	0.270		mg/L	0.020	05/19/2000	mkp	SW 6010B
TCLP-Beryllium, ICP	<0.0050		mg/L	0.0050	05/19/2000	mkp	SW 6010B
TCLP-Boron, ICP	<0.050		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Cadmium, ICP	<0.010		mg/L	0.010	05/19/2000	mkp	SW 6010B
TCLP-Chromium, ICP	<0.040		mg/L	0.040	05/19/2000	mkp	SW 6010B
TCLP-Cobalt, ICP	<0.10		mg/L	0.10	05/19/2000	mkp	SW 6010B
TCLP-Copper, ICP	<0.020		mg/L	0.020	05/19/2000	mkp	SW 6010B
TCLP-Iron, ICP	<0.050		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Lead, GFAA	<0.200		mg/L	0.0050	05/15/2000	jap	SW 7421
TCLP-Manganese, ICP	9.43		mg/L	0.010	05/19/2000	mkp	SW 6010B
TCLP-Mercury, CVAA	<0.0002		mg/L	0.0002	05/15/2000	vgm	SW 7470A
TCLP-Nickel, ICP	<0.050		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Selenium, GFAA	<0.100		mg/L	0.0050	05/15/2000	jap	SW 7740
TCLP-Thallium, GFAA	<0.010		mg/L	0.010	05/15/2000	jap	SW 7841
TCLP-Zinc, ICP	<0.020		mg/L	0.020	05/19/2000	mkp	SW 6010B
PREP, BN Nonaqueous	extracted				05/11/2000	jjh	SW 3550B
PREP, Acid Ext. Nonaqueous	extracted				05/11/2000	jjh	SW 3550B

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579045  
 Job No.: 00.04715

Sample Description: T-1 Deep  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
<b>ACID CMPDS - 8270 NONAQUEOUS</b>							
4-Chloro-3-methylphenol	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
2-Chlorophenol	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
2,4-Dichlorophenol	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
2,4-Dimethylphenol	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
2,4-Dinitrophenol	<2,020		ug/kg dw	2,020	05/15/2000	keh	SW 8270C
2-Methyl-4,6-dinitrophenol	<2,020		ug/kg dw	2,020	05/15/2000	keh	SW 8270C
2-Nitrophenol	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
4-Nitrophenol	<2,020		ug/kg dw	2,020	05/15/2000	keh	SW 8270C
Pentachlorophenol	<2,020		ug/kg dw	2,020	05/15/2000	keh	SW 8270C
Phenol	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
2,4,6-Trichlorophenol	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
<b>BASE/NEUTRALS-8270 NONAQUEOUS</b>							
Acenaphthene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Acenaphthylene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Anthracene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Benzo(a)anthracene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Benzo(b)fluoranthene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Benzo(k)fluoranthene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Benzo(g,h,i)perylene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Benzo(a)pyrene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Benzyl butyl phthalate	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Bis(2-chloroethoxy)methane	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Bis(2-chloroethyl)ether	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Bis(2-chloroisopropyl)ether	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Bis(2-ethylhexyl)phthalate	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579045  
 Job No.: 00.04715

Sample Description: T-1 Deep  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
4-Bromophenyl phenyl ether	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
2-Chloronaphthalene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
4-Chlorophenyl phenyl ether	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Chrysene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Dibenzo(a,h)anthracene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Di-n-butyl phthalate	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
1,2-Dichlorobenzene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
1,3-Dichlorobenzene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
1,4-Dichlorobenzene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
3,3'-Dichlorobenzidine	<833		ug/kg dw	833	05/15/2000	keh	SW 8270C
Diethyl phthalate	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Dimethyl phthalate	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
2,4-Dinitrotoluene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
2,6-Dinitrotoluene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Di-n-octyl phthalate	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Fluoranthene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Fluorene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Hexachlorobenzene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Hexachlorobutadiene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Hexachlorocyclopentadiene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Hexachloroethane	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Indeno(1,2,3-cd)pyrene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Isophorone	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Naphthalene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Nitrobenzene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
N-Nitrosodimethylamine	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
N-Nitrosodi-n-propylamine	<417*		ug/kg dw	417	05/15/2000	keh	SW 8270C

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579045  
 Job No.: 00.04715

Sample Description: T-1 Deep  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
N-Nitrosodiphenylamine	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Phenanthrene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Pyrene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
1,2,4-Trichlorobenzene	<417		ug/kg dw	417	05/15/2000	keh	SW 8270C
Surr: Phenol-d6	75.5	%		2-112	05/15/2000	keh	SW 8270C
Surr: 2-Fluorophenol	70.5	%		20-100	05/15/2000	keh	SW 8270C
Surr: Nitrobenzene-d5	75.0	%		34-109	05/15/2000	keh	SW 8270C
Surr: 2-Fluorobiphenyl	80.0	%		32-107	05/15/2000	keh	SW 8270C
Surr: Terphenyl-d14	86.0	%		27-118	05/15/2000	keh	SW 8270C
Surr: 2,4,6-Tribromophenol	82.5	%		26-120	05/15/2000	keh	SW 8270C
VOLATILE COMPPDS 8260 - NONAQ							
Acetone	<126		ug/kg dw	126	05/10/2000	mjo	SW 8260B
Acrylonitrile	<126		ug/kg dw	126	05/10/2000	mjo	SW 8260B
Benzene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
Bromobenzene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
Bromoform	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
Bromochloromethane	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
Bromodichloromethane	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
n-Butylbenzene	11		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
sec-Butylbenzene	92		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
tert-Butylbenzene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
Bromoform	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
Bromomethane	<13		ug/kg dw	13	05/10/2000	mjo	SW 8260B
Carbon Disulfide	<126		ug/kg dw	126	05/10/2000	mjo	SW 8260B
Carbon Tetrachloride	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
Chlorobenzene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
Chlorodibromomethane	<6.3	"	ug/kg dw	6.3	05/10/2000	mjo	SW 8260B

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579045  
 Job No.: 00.04715

Sample Description: T-1 Deep  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Chloroethane	<13		ug/kg dw	13	05/10/2000	mjo	SW 8260B
Chloroform	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
Chloromethane	<13		ug/kg dw	13	05/10/2000	mjo	SW 8260B
2-Chlorotoluene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
4-Chlorotoluene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
1,2-Dibromo-3-chloropropane	<126		ug/kg dw	126	05/10/2000	mjo	SW 8260B
1,2-Dichlorobenzene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
1,3-Dichlorobenzene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
1,2-Dibromoethane	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
Dibromomethane	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
1,4-Dichlorobenzene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
Dichlorodifluoromethane	<63		ug/kg dw	63	05/10/2000	mjo	SW 8260B
1,1-Dichloroethane	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
1,2-Dichloroethane	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
1,1-Dichloroethene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
cis-1,2-Dichloroethene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
trans-1,2-Dichloroethene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
1,2-Dichloropropane	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
1,3-Dichloropropane	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
2,2-Dichloropropane	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
1,1-Dichloropropene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
cis-1,3-Dichloropropene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
trans-1,3-Dichloropropene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
Ethyl Benzene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
2-Hexanone	<63		ug/kg dw	63	05/10/2000	mjo	SW 8260B
Hexachlorobutadiene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
Iodomethane	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579045  
 Job No.: 00.04715

Sample Description: T-1 Deep  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Isopropylbenzene	19		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
p-Isopropyltoluene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
Methyl Ethyl Ketone	<126		ug/kg dw	126	05/10/2000	mjo	SW 8260B
Methyl tert butyl ether (MTBE)	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
4-Methyl-2-pentanone (MIBK)	<63		ug/kg dw	63	05/10/2000	mjo	SW 8260B
Methylene chloride	<19		ug/kg dw	19	05/10/2000	mjo	SW 8260B
Naphthalene	<32		ug/kg dw	32	05/10/2000	mjo	SW 8260B
n-Propylbenzene	32		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
Styrene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
1,1,1,2-Tetrachloroethane	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
1,1,2,2-Tetrachloroethane	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
Tetrachloroethene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
Toluene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
1,2,3-Trichlorobenzene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
1,2,4-Trichlorobenzene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
1,1,1-Trichloroethane	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
1,1,2-Trichloroethane	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
Trichloroethene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
Trichlorofluoromethane	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
1,2,3-Trichloropropane	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
1,2,4-Trimethylbenzene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
1,3,5-Trimethylbenzene	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
Vinyl Acetate	<63		ug/kg dw	63	05/10/2000	mjo	SW 8260B
Vinyl Chloride	<6.3		ug/kg dw	6.3	05/10/2000	mjo	SW 8260B
Xylenes, total	<18.9		ug/kg dw	18.9	05/10/2000	mjo	SW 8260B
Surr: Dibromofluoromethane	108.0	%		69-147	05/10/2000	mjo	SW 8260B
Surr: Toluene-d8	100.0	%		64-140	05/10/2000	mjo	SW 8260B

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## ANALYTICAL REPORT

Ms. Emily Bell  
STS CONSULTANTS, LTD  
750 Corporate Woods  
Parkway  
Vernon Hills, IL 60061-3153

05/22/2000

Sample No. : 579045

Job No.: 00.04715

Sample Description: T-1 Deep  
31095-XH

Date Taken: 05/04/2000  
Time Taken:

Date Received: 05/05/2000  
Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Surr: Bromofluorobenzene	88.0	%		62-127	05/10/2000	mjo	SW 8260B
Method 5035 Sample Weight	5.46		grams		05/10/2000	mjo	SW 5035
<b>ALCOHOL COMPOUNDS</b>							
Butyl Alcohol	<13		mg/kg dw	13	05/19/2000	mfp	SW 8000
TCLP - Chloride	<5		mg/L	5.0	05/16/2000	lmf	SW 9251
TCLP - Cyanide	<0.005		mg/L	0.005	05/09/2000	kmb	SW 9012A
TCLP - Fluoride, ISE	0.15		mg/L	0.10	05/17/2000	lmf	EPA 340.2
TCLP - Nitrate	7.9		mg/L	1.0	05/12/2000	aks	SM 4500NO3
TCLP - Sulfate	<10		mg/L	10	05/16/2000	mas	EPA 375.4
TCLP Prep	COMPLETE			COMPLETE	05/09/2000	kmb	SW 1311

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579046  
 Job No.: 00.04715

Sample Description: T-2 Deep  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	78.4		%	0.1	05/15/2000	pjf	SM 2540
TCLP Metals Extraction	Leached				05/09/2000	kmb	SW 1311
TCLP-Antimony, GFAA	<0.020		mg/L	0.020	05/15/2000	jap	SW 7041
TCLP-Arsenic, GFAA	<0.100		mg/L	0.0050	05/15/2000	jap	SW 7061
TCLP-Barium, ICP	0.635		mg/L	0.020	05/19/2000	mkp	SW 6010B
TCLP-Beryllium, ICP	<0.0050		mg/L	0.0050	05/19/2000	mkp	SW 6010B
TCLP-Boron, ICP	0.160		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Cadmium, ICP	<0.010		mg/L	0.010	05/19/2000	mkp	SW 6010B
TCLP-Chromium, ICP	<0.040		mg/L	0.040	05/19/2000	mkp	SW 6010B
TCLP-Cobalt, ICP	<0.10		mg/L	0.10	05/19/2000	mkp	SW 6010B
TCLP-Copper, ICP	<0.020		mg/L	0.020	05/19/2000	mkp	SW 6010B
TCLP-Iron, ICP	<0.050		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Lead, GFAA	<0.200		mg/L	0.0050	05/15/2000	jap	SW 7421
TCLP-Manganese, ICP	9.11		mg/L	0.010	05/19/2000	mkp	SW 6010B
TCLP-Mercury, CVAA	<0.0002		mg/L	0.0002	05/15/2000	vgm	SW 7470A
TCLP-Nickel, ICP	<0.050		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Selenium, GFAA	<0.100		mg/L	0.0050	05/15/2000	jap	SW 7740
TCLP-Thallium, GFAA	<0.010		mg/L	0.010	05/15/2000	jap	SW 7841
TCLP-Zinc, ICP	0.190		mg/L	0.020	05/19/2000	mkp	SW 6010B
PREP, BN Nonaqueous	extracted				05/11/2000	jjh	SW 3550B
PREP, Acid Ext. Nonaqueous	extracted				05/11/2000	jjh	SW 3550B

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579046  
 Job No.: 00.04715

Sample Description: T-2 Deep  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
<b>ACID CMPDS - 8270 NONAQUEOUS</b>							
4-Chloro-3-methylphenol	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
2-Chlorophenol	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
2,4-Dichlorophenol	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
2,4-Dimethylphenol	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
2,4-Dinitrophenol	<2,040		ug/kg dw	2,040	05/15/2000	keh	SW 8270C
2-Methyl-4,6-dinitrophenol	<2,040		ug/kg dw	2,040	05/15/2000	keh	SW 8270C
2-Nitrophenol	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
4-Nitrophenol	<2,040		ug/kg dw	2,040	05/15/2000	keh	SW 8270C
Pentachlorophenol	<2,040		ug/kg dw	2,040	05/15/2000	keh	SW 8270C
Phenol	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
2,4,6-Trichlorophenol	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
<b>BASE/NEUTRALS-8270 NONAQUEOUS</b>							
Acenaphthene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Acenaphthylene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Anthracene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Benzo(a)anthracene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Benzo(b)fluoranthene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Benzo(k)fluoranthene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Benzo(g,h,i)perylene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Benzo(a)pyrene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Benzyl butyl phthalate	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Bis(2-chloroethoxy)methane	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Bis(2-chloroethyl)ether	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Bis(2-chloroisopropyl)ether	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Bis(2-ethylhexyl)phthalate	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579046  
 Job No.: 00.04715

Sample Description: T-2 Deep  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
4-Bromophenyl phenyl ether	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
2-Chloronaphthalene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
4-Chlorophenyl phenyl ether	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Chrysene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Dibenzo(a,h)anthracene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Di-n-butyl phthalate	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
1,2-Dichlorobenzene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
1,3-Dichlorobenzene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
1,4-Dichlorobenzene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
3,3'-Dichlorobenzidine	<842		ug/kg dw	842	05/15/2000	keh	SW 8270C
Diethyl phthalate	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Dimethyl phthalate	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
2,4-Dinitrotoluene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
2,6-Dinitrotoluene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Di-n-octyl phthalate	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Fluoranthene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Fluorene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Hexachlorobenzene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Hexachlorobutadiene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Hexachlorocyclopentadiene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Hexachloroethane	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Indeno(1,2,3-cd)pyrene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Isophorone	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Naphthalene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Nitrobenzene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
N-Nitrosodimethylamine	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
N-Nitrosodi-n-propylamine	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000

Sample No. : 579046

Job No.: 00.04715

Sample Description: T-2 Deep  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
N-Nitrosodiphenylamine	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Phenanthrene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Pyrene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
1,2,4-Trichlorobenzene	<421		ug/kg dw	421	05/15/2000	keh	SW 8270C
Surr: Phenol-d6	72.0	%		2-112	05/15/2000	keh	SW 8270C
Surr: 2-Fluorophenol	68.0	%		20-100	05/15/2000	keh	SW 8270C
Surr: Nitrobenzene-d5	74.0	%		34-109	05/15/2000	keh	SW 8270C
Surr: 2-Fluorobiphenyl	75.0	%		32-107	05/15/2000	keh	SW 8270C
Surr: Terphenyl-d14	85.0	%		27-118	05/15/2000	keh	SW 8270C
Surr: 2,4,6-Tribromophenol	84.0	%		26-120	05/15/2000	keh	SW 8270C
VOLATILE COMPDS 8260 - NONAQ							
Acetone	<128		ug/kg dw	128	05/11/2000	dap	SW 8260B
Acrylonitrile	<128		ug/kg dw	128	05/11/2000	dap	SW 8260B
Benzene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
Bromobenzene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
Bromochloromethane	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
Bromodichloromethane	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
n-Butylbenzene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
sec-Butylbenzene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
tert-Butylbenzene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
Bromoform	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
Bromomethane	<13		ug/kg dw	13	05/11/2000	dap	SW 8260B
Carbon Disulfide	<128		ug/kg dw	128	05/11/2000	dap	SW 8260B
Carbon Tetrachloride	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
Chlorobenzene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
Chlorodibromomethane	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579046  
 Job No.: 00.04715

Sample Description: T-2 Deep  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Chloroethane	<13		ug/kg dw	13	05/11/2000	dap	SW 8260B
Chloroform	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
Chloromethane	<13		ug/kg dw	13	05/11/2000	dap	SW 8260B
2-Chlorotoluene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
4-Chlorotoluene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
1,2-Dibromo-3-chloropropane	<128		ug/kg dw	128	05/11/2000	dap	SW 8260B
1,2-Dichlorobenzene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
1,3-Dichlorobenzene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
1,2-Dibromoethane	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
Dibromomethane	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
1,4-Dichlorobenzene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
Dichlorodifluoromethane	<64		ug/kg dw	64	05/11/2000	dap	SW 8260B
1,1-Dichloroethane	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
1,2-Dichloroethane	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
1,1-Dichloroethene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
cis-1,2-Dichloroethene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
trans-1,2-Dichloroethene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
1,2-Dichloropropane	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
1,3-Dichloropropane	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
2,2-Dichloropropane	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
1,1-Dichloropropene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
cis-1,3-Dichloropropene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
trans-1,3-Dichloropropene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
Ethyl Benzene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
2-Hexanone	<64		ug/kg dw	64	05/11/2000	dap	SW 8260B
Hexachlorobutadiene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
Iodomethane	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000

Sample No. : 579046

Job No.: 00.04715

Sample Description: T-2 Deep  
 31095-XH

Date Taken: 05/04/2000  
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Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Isopropylbenzene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
p-Isopropyltoluene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
Methyl Ethyl Ketone	<128		ug/kg dw	128	05/11/2000	dap	SW 8260B
Methyl tert butyl ether (MTBE)	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
4-Methyl-2-pentanone (MIBK)	<64		ug/kg dw	64	05/11/2000	dap	SW 8260B
Methylene chloride	<19		ug/kg dw	19	05/11/2000	dap	SW 8260B
Naphthalene	<32		ug/kg dw	32	05/11/2000	dap	SW 8260B
n-Propylbenzene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
Styrene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
1,1,1,2-Tetrachloroethane	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
1,1,2,2-Tetrachloroethane	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
Tetrachloroethene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
Toluene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
1,2,3-Trichlorobenzene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
1,2,4-Trichlorobenzene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
1,1,1-Trichloroethane	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
1,1,2-Trichloroethane	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
Trichloroethene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
Trichlorofluoromethane	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
1,2,3-Trichloropropane	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
1,2,4-Trimethylbenzene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
1,3,5-Trimethylbenzene	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
Vinyl Acetate	<64		ug/kg dw	64	05/11/2000	dap	SW 8260B
Vinyl Chloride	<6.4		ug/kg dw	6.4	05/11/2000	dap	SW 8260B
Xylenes, total	<19.1		ug/kg dw	19.1	05/11/2000	dap	SW 8260B
Surr: Dibromofluoromethane	104.0	%		69-147	05/11/2000	dap	SW 8260B
Surr: Toluene-d8	100.0	%		64-140	05/11/2000	dap	SW 8260B

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STS CONSULTANTS, LTD  
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Vernon Hills, IL 60061-3153

05/22/2000

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Job No.: 00.04715

Sample Description: T-2 Deep  
31095-XH

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Time Taken:

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Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Surr: Bromofluorobenzene	92.0		%	62-127	05/11/2000	dap	SW 8260B
Method 5035 Sample Weight	6.08		grams		05/11/2000	dap	SW 5035
<b>ALCOHOL COMPOUNDS</b>							
Butyl Alcohol	<13		mg/kg dw	13	05/19/2000	mkp	SW 8000
TCLP - Chloride	<5		mg/L	5.0	05/16/2000	lmf	SW 9251
TCLP - Cyanide	<0.005		mg/L	0.005	05/09/2000	kmb	SW 9012A
TCLP - Fluoride, ISE	0.27		mg/L	0.10	05/17/2000	lmf	EPA 340.2
TCLP - Nitrate	9.7		mg/L	1.0	05/12/2000	aks	SM 4500NO3
TCLP - Sulfate	<10		mg/L	10	05/16/2000	mas	EPA 375.4
TCLP Prep	COMPLETE			COMPLETE	05/09/2000	kmb	SW 1311

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 750 Corporate Woods  
 Parkway  
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05/22/2000  
 Sample No. : 579047  
 Job No.: 00.04715

Sample Description: T-3 Deep  
 31095-XH

Date Taken: 05/04/2000  
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Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	81.1	%		0.1	05/15/2000	pjf	SM 2540
TCLP Metals Extraction	Leached				05/09/2000	kmb	SW 1311
TCLP-Antimony, GFAA	<0.020		mg/L	0.020	05/15/2000	jap	SW 7041
TCLP-Arsenic, GFAA	<0.100		mg/L	0.0050	05/15/2000	jap	SW 7061
TCLP-Barium, ICP	0.323		mg/L	0.020	05/19/2000	mkp	SW 6010B
TCLP-Beryllium, ICP	<0.0050		mg/L	0.0050	05/19/2000	mkp	SW 6010B
TCLP-Boron, ICP	0.230		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Cadmium, ICP	<0.010		mg/L	0.010	05/19/2000	mkp	SW 6010B
TCLP-Chromium, ICP	<0.040		mg/L	0.040	05/19/2000	mkp	SW 6010B
TCLP-Cobalt, ICP	<0.10		mg/L	0.10	05/19/2000	mkp	SW 6010B
TCLP-Copper, ICP	<0.020		mg/L	0.020	05/19/2000	mkp	SW 6010B
TCLP-Iron, ICP	2.10		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Lead, GFAA	<0.200		mg/L	0.0050	05/15/2000	jap	SW 7421
TCLP-Manganese, ICP	2.39		mg/L	0.010	05/19/2000	mkp	SW 6010B
TCLP-Mercury, CVAA	<0.0002		mg/L	0.0002	05/15/2000	vgm	SW 7470A
TCLP-Nickel, ICP	<0.050		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Selenium, GFAA	<0.100		mg/L	0.0050	05/15/2000	jap	SW 7740
TCLP-Thallium, GFAA	<0.010		mg/L	0.010	05/15/2000	jap	SW 7841
TCLP-Zinc, ICP	0.130		mg/L	0.020	05/19/2000	mkp	SW 6010B
PREP, BN Nonaqueous	extracted				05/11/2000	jjh	SW 3550B
PREP, Acid Ext. Nonaqueous	extracted				05/11/2000	jjh	SW 3550B

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 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579047  
 Job No.: 00.04715

Sample Description: T-3 Deep  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
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Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
<b>ACID CMPDS - 8270 NONAQUEOUS</b>							
4-Chloro-3-methylphenol	<1,500	ELV	ug/kg dw	407	05/16/2000	keh	SW 8270C
2-Chlorophenol	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
2,4-Dichlorophenol	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
2,4-Dimethylphenol	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
2,4-Dinitrophenol	<7,500		ug/kg dw	1,970	05/16/2000	keh	SW 8270C
2-Methyl-4,6-dinitrophenol	<7,500		ug/kg dw	1,970	05/16/2000	keh	SW 8270C
2-Nitrophenol	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
4-Nitrophenol	<7,500		ug/kg dw	1,970	05/16/2000	keh	SW 8270C
Pentachlorophenol	<7,500		ug/kg dw	1,970	05/16/2000	keh	SW 8270C
Phenol	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
2,4,6-Trichlorophenol	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
<b>BASE/NEUTRALS-8270 NONAQUEOUS</b>							
Acenaphthene	1,970	ELV	ug/kg dw	407	05/16/2000	keh	SW 8270C
Acenaphthylene	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Anthracene	1,970		ug/kg dw	407	05/16/2000	keh	SW 8270C
Benzo(a)anthracene	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Benzo(b)fluoranthene	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Benzo(k)fluoranthene	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Benzo(g,h,i)perylene	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Benzo(a)pyrene	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Benzyl butyl phthalate	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Bis(2-chloroethoxy)methane	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Bis(2-chloroethyl)ether	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Bis(2-chloroisopropyl)ether	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Bis(2-ethylhexyl)phthalate	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C

ELV : Elevated reporting limits due to matrix interference.

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000

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 31095-XH

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Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
4-Bromophenyl phenyl ether	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
2-Chloronaphthalene	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
4-Chlorophenyl phenyl ether	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Chrysene	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Dibenzo(a,h)anthracene	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Di-n-butyl phthalate	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
1,2-Dichlorobenzene	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
1,3-Dichlorobenzene	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
1,4-Dichlorobenzene	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
3,3'-Dichlorobenzidine	<3,100		ug/kg dw	814	05/16/2000	keh	SW 8270C
Diethyl phthalate	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Dimethyl phthalate	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
2,4-Dinitrotoluene	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
2,6-Dinitrotoluene	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Di-n-octyl phthalate	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Fluoranthene	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Fluorene	2,840		ug/kg dw	407	05/16/2000	keh	SW 8270C
Hexachlorobenzene	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Hexachlorobutadiene	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Hexachlorocyclopentadiene	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Hexachloroethane	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Indeno(1,2,3-cd)pyrene	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Isophorone	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Naphthalene	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Nitrobenzene	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
N-Nitrosodimethylamine	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
N-Nitrosodi-n-propylamine	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C

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 750 Corporate Woods  
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05/22/2000  
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 31095-XH

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Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
N-Nitrosodiphenylamine	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Phenanthrene	7,270		ug/kg dw	407	05/16/2000	keh	SW 8270C
Pyrene	2,710		ug/kg dw	407	05/16/2000	keh	SW 8270C
1,2,4-Trichlorobenzene	<1,500		ug/kg dw	407	05/16/2000	keh	SW 8270C
Surr: Phenol-d6	97.0	%		2-112	05/16/2000	keh	SW 8270C
Surr: 2-Fluorophenol	89.5	%		20-100	05/16/2000	keh	SW 8270C
Surr: Nitrobenzene-d5	86.0	%		34-109	05/16/2000	keh	SW 8270C
Surr: 2-Fluorobiphenyl	101.0	%		32-107	05/16/2000	keh	SW 8270C
Surr: Terphenyl-d14	95.0	%		27-118	05/16/2000	keh	SW 8270C
Surr: 2,4,6-Tribromophenol	76.0	%		26-120	05/16/2000	keh	SW 8270C
ELV							
VOLATILE COMPDS 8260 - NONAQ							
Acetone	<2,100		ug/kg dw	123	05/11/2000	mjo	SW 8260B
Acrylonitrile	<2,100		ug/kg dw	123	05/11/2000	mjo	SW 8260B
Benzene	100	MDL	ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
Bromobenzene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
Bromoform	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
Bromochloromethane	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
Bromodichloromethane	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
n-Butylbenzene	2,960		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
sec-Butylbenzene	3,950		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
tert-Butylbenzene	110		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
Bromomethane	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
Carbon Disulfide	<2,100		ug/kg dw	123	05/11/2000	mjo	SW 8260B
Carbon Tetrachloride	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
Chlorobenzene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
Chlorodibromomethane	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B

ELV : Elevated reporting limits due to matrix interference.

MDL : Analyte reported to the Method Detection Limit.

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## ANALYTICAL REPORT

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 750 Corporate Woods  
 Parkway  
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05/22/2000

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Job No.: 00.04715

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 31095-XH

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Chloroethane	<210		ug/kg dw	12	05/11/2000	mjo	SW 8260B
Chloroform	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
Chloromethane	<210		ug/kg dw	12	05/11/2000	mjo	SW 8260B
2-Chlorotoluene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
4-Chlorotoluene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
1,2-Dibromo-3-chloropropane	<2,100		ug/kg dw	123	05/11/2000	mjo	SW 8260B
1,2-Dichlorobenzene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
1,3-Dichlorobenzene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
1,2-Dibromoethane	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
Dibromomethane	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
1,4-Dichlorobenzene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
Dichlorodifluoromethane	<1,050		ug/kg dw	62	05/11/2000	mjo	SW 8260B
1,1-Dichloroethane	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
1,2-Dichloroethane	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
1,1-Dichloroethene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
cis-1,2-Dichloroethene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
trans-1,2-Dichloroethene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
1,2-Dichloropropane	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
1,3-Dichloropropane	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
2,2-Dichloropropane	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
1,1-Dichloropropene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
cis-1,3-Dichloropropene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
trans-1,3-Dichloropropene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
Ethyl Benzene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
2-Hexanone	<1,050		ug/kg dw	62	05/11/2000	mjo	SW 8260B
Hexachlorobutadiene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
Iodomethane	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579047  
 Job No.: 00.04715

Sample Description: T-3 Deep  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Isopropylbenzene	1,730		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
p-Isopropyltoluene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
Methyl Ethyl Ketone	<2,100		ug/kg dw	123	05/11/2000	mjo	SW 8260B
Methyl tert butyl ether (MTBE)	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
4-Methyl-2-pentanone (MIBK)	<1,050		ug/kg dw	62	05/11/2000	mjo	SW 8260B
Methylene chloride	<321		ug/kg dw	18	05/11/2000	mjo	SW 8260B
Naphthalene	<518		ug/kg dw	31	05/11/2000	mjo	SW 8260B
n-Propylbenzene	2,840		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
Styrene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
1,1,1,2-Tetrachloroethane	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
1,1,2,2-Tetrachloroethane	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
Tetrachloroethene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
Toluene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
1,2,3-Trichlorobenzene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
1,2,4-Trichlorobenzene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
1,1,1-Trichloroethane	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
1,1,2-Trichloroethane	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
Trichloroethene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
Trichlorofluoromethane	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
1,2,3-Trichloropropane	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
1,2,4-Trimethylbenzene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
1,3,5-Trimethylbenzene	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
Vinyl Acetate	<1,050		ug/kg dw	62	05/11/2000	mjo	SW 8260B
Vinyl Chloride	<100		ug/kg dw	6.2	05/11/2000	mjo	SW 8260B
Xylenes, total	<321		ug/kg dw	18.5	05/11/2000	mjo	SW 8260B
Surr: Dibromofluoromethane	108.0		%	69-147	05/11/2000	mjo	SW 8260B
Surr: Toluene-d8	102.0		%	64-140	05/11/2000	mjo	SW 8260B

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## ANALYTICAL REPORT

Ms. Emily Bell  
STS CONSULTANTS, LTD  
750 Corporate Woods  
Parkway  
Vernon Hills, IL 60061-3153

05/22/2000

Sample No. : 579047

Job No.: 00.04715

Sample Description: T-3 Deep  
31095-XH

Date Taken: 05/04/2000  
Time Taken:

Date Received: 05/05/2000  
Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Surr: Bromofluorobenzene	122.0		%	62-127	05/11/2000	mjo	SW 8260B
Method 5035 Sample Weight	6.23		grams		05/11/2000	mjo	SW 5035
ALCOHOL COMPOUNDS							
Butyl Alcohol	<12		mg/kg dw	12	05/19/2000	mkp	SW 8000
TCLP - Chloride	<5		mg/L	5.0	05/16/2000	lmf	SW 9251
TCLP - Cyanide	<0.005		mg/L	0.005	05/09/2000	kmb	SW 9012A
TCLP - Fluoride, ISE	0.25		mg/L	0.10	05/17/2000	lmf	EPA 340.2
TCLP - Nitrate	1.6		mg/L	1.0	05/12/2000	aks	SM 4500NO3
TCLP - Sulfate	<10		mg/L	10	05/16/2000	mas	EPA 375.4
TCLP Prep	COMPLETE			COMPLETE	05/09/2000	kmb	SW 1311

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Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579048  
 Job No.: 00.04715

Sample Description: T-4 Deep  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	77.0	#		0.1	05/15/2000	pjf	SM 2540
TCLP Metals Extraction	Leached				05/09/2000	kmb	SW 1311
TCLP-Antimony, GFAA	<0.020		mg/L	0.020	05/15/2000	jap	SW 7041
TCLP-Arsenic, GFAA	<0.100		mg/L	0.0050	05/15/2000	jap	SW 7061
TCLP-Barium, ICP	0.405		mg/L	0.020	05/19/2000	mkp	SW 6010B
TCLP-Beryllium, ICP	<0.0050		mg/L	0.0050	05/19/2000	mkp	SW 6010B
TCLP-Boron, ICP	0.180		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Cadmium, ICP	<0.010		mg/L	0.010	05/19/2000	mkp	SW 6010B
TCLP-Chromium, ICP	<0.040		mg/L	0.040	05/19/2000	mkp	SW 6010B
TCLP-Cobalt, ICP	<0.10		mg/L	0.10	05/19/2000	mkp	SW 6010B
TCLP-Copper, ICP	<0.020		mg/L	0.020	05/19/2000	mkp	SW 6010B
TCLP-Iron, ICP	0.290		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Lead, GFAA	<0.200		mg/L	0.0050	05/15/2000	jap	SW 7421
TCLP-Manganese, ICP	7.05		mg/L	0.010	05/19/2000	mkp	SW 6010B
TCLP-Mercury, CVAA	<0.0002		mg/L	0.0002	05/15/2000	vgm	SW 7470A
TCLP-Nickel, ICP	<0.050		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Selenium, GFAA	<0.100		mg/L	0.0050	05/15/2000	jap	SW 7740
TCLP-Thallium, GFAA	<0.010		mg/L	0.010	05/15/2000	jap	SW 7841
TCLP-Zinc, ICP	0.090		mg/L	0.020	05/19/2000	mkp	SW 6010B
PREP, BN Nonaqueous	extracted				05/11/2000	jjh	SW 3550B
PREP, Acid Ext. Nonaqueous	extracted				05/11/2000	jjh	SW 3550B

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579048  
 Job No.: 00.04715

Sample Description: T-4 Deep  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
<b>ACID CMPDS - 8270 NONAQUEOUS</b>							
4-Chloro-3-methylphenol	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
2-Chlorophenol	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
2,4-Dichlorophenol	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
2,4-Dimethylphenol	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
2,4-Dinitrophenol	<2,080		ug/kg dw	2,080	05/15/2000	keh	SW 8270C
2-Methyl-4,6-dinitrophenol	<2,080		ug/kg dw	2,080	05/15/2000	keh	SW 8270C
2-Nitrophenol	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
4-Nitrophenol	<2,080		ug/kg dw	2,080	05/15/2000	keh	SW 8270C
Pentachlorophenol	<2,080		ug/kg dw	2,080	05/15/2000	keh	SW 8270C
Phenol	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
2,4,6-Trichlorophenol	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
<b>BASE/NEUTRALS-8270 NONAQUEOUS</b>							
Acenaphthene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Acenaphthylene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Anthracene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Benz(a)anthracene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Benz(b)fluoranthene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Benz(k)fluoranthene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Benz(g,h,i)perylene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Benz(a)pyrene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Benzyl butyl phthalate	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Bis(2-chloroethoxy)methane	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Bis(2-chloroethyl)ether	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Bis(2-chloroisopropyl)ether	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Bis(2-ethylhexyl)phthalate	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579048  
 Job No.: 00.04715

Sample Description: T-4 Deep  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
4-Bromophenyl phenyl ether	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
2-Chloronaphthalene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
4-Chlorophenyl phenyl ether	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Chrysene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Dibenzo(a,h)anthracene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Di-n-butyl phthalate	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
1,2-Dichlorobenzene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
1,3-Dichlorobenzene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
1,4-Dichlorobenzene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
3,3'-Dichlorobenzidine	<857		ug/kg dw	857	05/15/2000	keh	SW 8270C
Diethyl phthalate	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Dimethyl phthalate	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
2,4-Dinitrotoluene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
2,6-Dinitrotoluene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Di-n-octyl phthalate	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Fluoranthene	1,190		ug/kg dw	429	05/15/2000	keh	SW 8270C
Fluorene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Hexachlorobenzene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Hexachlorobutadiene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Hexachlorocyclopentadiene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Hexachloroethane	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Indeno(1,2,3-cd)pyrene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Isophorone	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Naphthalene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Nitrobenzene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
N-Nitrosodimethylamine	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
N-Nitrosodi-n-propylamine	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579048  
 Job No.: 00.04715

Sample Description: T-4 Deep  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
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Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
N-Nitrosodiphenylamine	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Phenanthrene	9,480		ug/kg dw	429	05/16/2000	keh	SW 8270C
Pyrene	1,690		ug/kg dw	429	05/15/2000	keh	SW 8270C
1,2,4-Trichlorobenzene	<429		ug/kg dw	429	05/15/2000	keh	SW 8270C
Surr: Phenol-d6	81.0		%	2-112	05/15/2000	keh	SW 8270C
Surr: 2-Fluorophenol	63.5		%	20-100	05/15/2000	keh	SW 8270C
Surr: Nitrobenzene-d5	74.0		%	34-109	05/15/2000	keh	SW 8270C
Surr: 2-Fluorobiphenyl	100.0		%	32-107	05/15/2000	keh	SW 8270C
Surr: Terphenyl-d14	125.0	RM	%	27-118	05/15/2000	keh	SW 8270C
Surr: 2,4,6-Tribromophenol	90.0		%	26-120	05/15/2000	keh	SW 8270C
VOLATILE COMPDS 8260 - NONAQ		ELV					
Acetone	<2,340		ug/kg dw	130	05/11/2000	mjo	SW 8260B
Acrylonitrile	<2,340		ug/kg dw	130	05/11/2000	mjo	SW 8260B
Benzene	1,260		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
Bromobenzene	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
Bromoform	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
Bromochloromethane	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
Bromodichloromethane	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
n-Butylbenzene	4,680		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
sec-Butylbenzene	1,560		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
tert-Butylbenzene	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
Bromomethane	<234		ug/kg dw	13	05/11/2000	mjo	SW 8260B
Carbon Disulfide	<2,340		ug/kg dw	130	05/11/2000	mjo	SW 8260B
Carbon Tetrachloride	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
Chlorobenzene	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
Chlorodibromomethane	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B

RM: Surrogate outside acceptance limits due to matrix interference.  
 ELV : Elevated reporting limits due to matrix interference.

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000

Sample No. : 579048

Job No.: 00.04715

Sample Description: T-4 Deep  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Chloroethane	<234		ug/kg dw	13	05/11/2000	mjo	SW 8260B
Chloroform	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
Chloromethane	<234		ug/kg dw	13	05/11/2000	mjo	SW 8260B
2-Chlorotoluene	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
4-Chlorotoluene	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
1,2-Dibromo-3-chloropropane	<2,340		ug/kg dw	130	05/11/2000	mjo	SW 8260B
1,2-Dichlorobenzene	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
1,3-Dichlorobenzene	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
1,2-Dibromoethane	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
Dibromomethane	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
1,4-Dichlorobenzene	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
Dichlorodifluoromethane	<1,170		ug/kg dw	65	05/11/2000	mjo	SW 8260B
1,1-Dichloroethane	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
1,2-Dichloroethane	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
1,1-Dichloroethene	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
cis-1,2-Dichloroethene	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
trans-1,2-Dichloroethene	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
1,2-Dichloropropane	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
1,3-Dichloropropane	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
2,2-Dichloropropane	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
1,1-Dichloropropene	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
cis-1,3-Dichloropropene	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
trans-1,3-Dichloropropene	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
Ethyl Benzene	24,700		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
2-Hexanone	<1,170		ug/kg dw	65	05/11/2000	mjo	SW 8260B
Hexachlorobutadiene	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
Iodomethane	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B

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## ANALYTICAL REPORT

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05/22/2000

Sample No. : 579048

Job No.: 00.04715

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 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Isopropylbenzene	3,510		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
p-Isopropyltoluene	584		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
Methyl Ethyl Ketone	<2,340		ug/kg dw	130	05/11/2000	mjo	SW 8260B
Methyl tert butyl ether (MTBE)	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
4-Methyl-2-pentanone (MIBK)	<1,170		ug/kg dw	65	05/11/2000	mjo	SW 8260B
Methylene chloride	<351		ug/kg dw	19	05/11/2000	mjo	SW 8260B
Naphthalene	4,030		ug/kg dw	32	05/11/2000	mjo	SW 8260B
n-Propylbenzene	11,300		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
Styrene	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
1,1,1,2-Tetrachloroethane	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
1,1,2,2-Tetrachloroethane	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
Tetrachloroethene	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
Toluene	558		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
1,2,3-Trichlorobenzene	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
1,2,4-Trichlorobenzene	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
1,1,1-Trichloroethane	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
1,1,2-Trichloroethane	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
Trichloroethene	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
Trichlorofluoromethane	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
1,2,3-Trichloropropane	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
1,2,4-Trimethylbenzene	42,900		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
1,3,5-Trimethylbenzene	10,900		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
Vinyl Acetate	<1,170		ug/kg dw	65	05/11/2000	mjo	SW 8260B
Vinyl Chloride	<120		ug/kg dw	6.5	05/11/2000	mjo	SW 8260B
Xylenes, total	79,200		ug/kg dw	19.5	05/11/2000	mjo	SW 8260B
Surr: Dibromofluoromethane	108.0	%		69-147	05/11/2000	mjo	SW 8260B
Surr: Toluene-d8	116.0	%		64-140	05/11/2000	mjo	SW 8260B

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## **ANALYTICAL REPORT**

Ms. Emily Bell  
STS CONSULTANTS, LTD  
750 Corporate Woods  
Parkway  
Vernon Hills, IL 60061-3153

05/22/2000

Sample No. : 579048

Job No.: 00.04715

Sample Description: T-4 Deep  
31095-XH

Date Taken: 05/04/2000  
Time Taken:

Date Received: 05/05/2000  
Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Surr: Bromofluorobenzene	120.0		%	62-127	05/11/2000	mjo	SW 8260B
Method 5035 Sample Weight	5.60		grams		05/11/2000	mjo	SW 5035
<b>ALCOHOL COMPOUNDS</b>							
Butyl Alcohol	<13		mg/kg dw	13	05/19/2000	mkp	SW 8000
TCLP - Chloride	<5		mg/L	5.0	05/16/2000	lmf	SW 9251
TCLP - Cyanide	<0.005		mg/L	0.005	05/09/2000	kmb	SW 9012A
TCLP - Fluoride, ISE	0.12		mg/L	0.10	05/17/2000	lmf	EPA 340.2
TCLP - Nitrate	<1.0		mg/L	1.0	05/12/2000	aks	SM 4500NO3
TCLP - Sulfate	<10		mg/L	10	05/16/2000	mas	EPA 375.4
TCLP Prep	COMPLETE			COMPLETE	05/09/2000	kmb	SW 1311

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579049  
 Job No.: 00.04715

Sample Description: T-5 Deep  
 31095-XH

Date Taken: 05/05/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	76.0	%		0.1	05/15/2000 05/09/2000	pjf kmb	SM 2540 SW 1311
TCLP Metals Extraction	Leached				05/15/2000	jap	SW 7041
TCLP-Antimony, GFAA	<0.020		mg/L	0.020	05/15/2000	jap	SW 7061
TCLP-Arsenic, GFAA	<0.100		mg/L	0.0050	05/19/2000	mkp	SW 6010B
TCLP-Barium, ICP	0.270		mg/L	0.020	05/19/2000	mkp	SW 6010B
TCLP-Beryllium, ICP	<0.0050		mg/L	0.0050	05/19/2000	mkp	SW 6010B
TCLP-Boron, ICP	0.240		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Cadmium, ICP	<0.010		mg/L	0.010	05/19/2000	mkp	SW 6010B
TCLP-Chromium, ICP	<0.040		mg/L	0.040	05/19/2000	mkp	SW 6010B
TCLP-Cobalt, ICP	<0.10		mg/L	0.10	05/19/2000	mkp	SW 6010B
TCLP-Copper, ICP	<0.020		mg/L	0.020	05/19/2000	mkp	SW 6010B
TCLP-Iron, ICP	0.130		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Lead, GFAA	<0.200		mg/L	0.0050	05/15/2000	jap	SW 7421
TCLP-Manganese, ICP	3.11		mg/L	0.010	05/19/2000	mkp	SW 6010B
TCLP-Mercury, CVAA	<0.0002		mg/L	0.0002	05/15/2000	vgm	SW 7470A
TCLP-Nickel, ICP	<0.050		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Selenium, GFAA	<0.100		mg/L	0.0050	05/15/2000	jap	SW 7740
TCLP-Thallium, GFAA	<0.010		mg/L	0.010	05/15/2000	jap	SW 7841
TCLP-Zinc, ICP	0.040		mg/L	0.020	05/19/2000	mkp	SW 6010B
PREP, BN Nonaqueous	extracted				05/11/2000	jjh	SW 3550B
PREP, Acid Ext. Nonaqueous	extracted				05/11/2000	jjh	SW 3550B

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579049  
 Job No.: 00.04715

Sample Description: T-5 Deep  
 31095-XH

Date Taken: 05/05/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
<b>ACID CMPDS - 8270 NONAQUEOUS</b>							
4-Chloro-3-methylphenol	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
2-Chlorophenol	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
2,4-Dichlorophenol	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
2,4-Dimethylphenol	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
2,4-Dinitrophenol	<2,110		ug/kg dw	2,110	05/15/2000	keh	SW 8270C
2-Methyl-4,6-dinitrophenol	<2,110		ug/kg dw	2,110	05/15/2000	keh	SW 8270C
2-Nitrophenol	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
4-Nitrophenol	<2,110		ug/kg dw	2,110	05/15/2000	keh	SW 8270C
Pentachlorophenol	<2,110		ug/kg dw	2,110	05/15/2000	keh	SW 8270C
Phenol	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
2,4,6-Trichlorophenol	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
<b>BASE/NEUTRALS-8270 NONAQUEOUS</b>							
Acenaphthene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Acenaphthylene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Anthracene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Benzo(a)anthracene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Benzo(b)fluoranthene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Benzo(k)fluoranthene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Benzo(g,h,i)perylene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Benzo(a)pyrene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Benzyl butyl phthalate	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Bis(2-chloroethoxy)methane	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Bis(2-chloroethyl)ether	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Bis(2-chloroisopropyl)ether	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Bis(2-ethylhexyl)phthalate	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000

Sample No. : 579049

Job No.: 00.04715

Sample Description: T-5 Deep  
 31095-XH

Date Taken: 05/05/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
4-Bromophenyl phenyl ether	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
2-Chloronaphthalene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
4-Chlorophenyl phenyl ether	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Chrysene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Dibenzo(a,h)anthracene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Di-n-butyl phthalate	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
1,2-Dichlorobenzene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
1,3-Dichlorobenzene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
1,4-Dichlorobenzene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
3,3'-Dichlorobenzidine	<868		ug/kg dw	868	05/15/2000	keh	SW 8270C
Diethyl phthalate	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Dimethyl phthalate	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
2,4-Dinitrotoluene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
2,6-Dinitrotoluene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Di-n-octyl phthalate	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Fluoranthene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Fluorene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Hexachlorobenzene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Hexachlorobutadiene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Hexachlorocyclopentadiene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Hexachloroethane	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Indeno(1,2,3-cd)pyrene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Isophorone	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Naphthalene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Nitrobenzene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
N-Nitrosodimethylamine	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
N-Nitrosodi-n-propylamine	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000

Sample No. : 579049

Job No.: 00.04715

Sample Description: T-5 Deep  
 31095-XH

Date Taken: 05/05/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
N-Nitrosodiphenylamine	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Phenanthrene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Pyrene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
1,2,4-Trichlorobenzene	<434		ug/kg dw	434	05/15/2000	keh	SW 8270C
Surr: Phenol-d6	74.5	%		2-112	05/15/2000	keh	SW 8270C
Surr: 2-Fluorophenol	73.5	%		20-100	05/15/2000	keh	SW 8270C
Surr: Nitrobenzene-d5	70.0	%		34-109	05/15/2000	keh	SW 8270C
Surr: 2-Fluorobiphenyl	78.0	%		32-107	05/15/2000	keh	SW 8270C
Surr: Terphenyl-d14	77.0	%		27-118	05/15/2000	keh	SW 8270C
Surr: 2,4,6-Tribromophenol	72.5	%		26-120	05/15/2000	keh	SW 8270C
VOLATILE COMPDS 8260 - NONAQ							
Acetone	<132		ug/kg dw	132	05/10/2000	mjo	SW 8260B
Acrylonitrile	<132		ug/kg dw	132	05/10/2000	mjo	SW 8260B
Benzene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
Bromobenzene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
Bromoform	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
Bromochloromethane	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
Bromodichloromethane	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
n-Butylbenzene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
sec-Butylbenzene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
tert-Butylbenzene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
Bromomethane	<13		ug/kg dw	13	05/10/2000	mjo	SW 8260B
Carbon Disulfide	<132		ug/kg dw	132	05/10/2000	mjo	SW 8260B
Carbon Tetrachloride	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
Chlorobenzene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
Chlorodibromomethane	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579049  
 Job No.: 00.04715

Sample Description: T-5 Deep  
 31095-XH

Date Taken: 05/05/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Chloroethane	<13		ug/kg dw	13	05/10/2000	mjo	SW 8260B
Chloroform	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
Chloromethane	<13		ug/kg dw	13	05/10/2000	mjo	SW 8260B
2-Chlorotoluene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
4-Chlorotoluene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
1,2-Dibromo-3-chloropropane	<132		ug/kg dw	132	05/10/2000	mjo	SW 8260B
1,2-Dichlorobenzene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
1,3-Dichlorobenzene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
1,2-Dibromoethane	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
Dibromomethane	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
1,4-Dichlorobenzene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
Dichlorodifluoromethane	<66		ug/kg dw	66	05/10/2000	mjo	SW 8260B
1,1-Dichloroethane	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
1,2-Dichloroethane	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
1,1-Dichloroethene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
cis-1,2-Dichloroethene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
trans-1,2-Dichloroethene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
1,2-Dichloropropane	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
1,3-Dichloropropane	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
2,2-Dichloropropane	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
1,1-Dichloropropene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
cis-1,3-Dichloropropene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
trans-1,3-Dichloropropene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
Ethyl Benzene	<6.6		ug/kg dw	66	05/10/2000	mjo	SW 8260B
2-Hexanone	<66		ug/kg dw	66	05/10/2000	mjo	SW 8260B
Hexachlorobutadiene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
Iodomethane	<6.6"		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579049  
 Job No.: 00.04715

Sample Description: T-5 Deep  
 31095-XH

Date Taken: 05/05/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Isopropylbenzene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
p-Isopropyltoluene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
Methyl Ethyl Ketone	<132		ug/kg dw	132	05/10/2000	mjo	SW 8260B
Methyl tert butyl ether (MTBE)	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
4-Methyl-2-pentanone (MIBK)	<66		ug/kg dw	66	05/10/2000	mjo	SW 8260B
Methylene chloride	<20		ug/kg dw	20	05/10/2000	mjo	SW 8260B
Naphthalene	<33		ug/kg dw	33	05/10/2000	mjo	SW 8260B
n-Propylbenzene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
Styrene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
1,1,1,2-Tetrachloroethane	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
1,1,2,2-Tetrachloroethane	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
Tetrachloroethene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
Toluene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
1,2,3-Trichlorobenzene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
1,2,4-Trichlorobenzene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
1,1,1-Trichloroethane	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
1,1,2-Trichloroethane	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
Trichloroethene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
Trichlorofluoromethane	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
1,2,3-Trichloropropane	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
1,2,4-Trimethylbenzene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
1,3,5-Trimethylbenzene	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
Vinyl Acetate	<66		ug/kg dw	66	05/10/2000	mjo	SW 8260B
Vinyl Chloride	<6.6		ug/kg dw	6.6	05/10/2000	mjo	SW 8260B
Xylenes, total	<19.7		ug/kg dw	19.7	05/10/2000	mjo	SW 8260B
Surr: Dibromofluoromethane	106.0		%	69-147	05/10/2000	mjo	SW 8260B
Surr: Toluene-d8	100.0		%	64-140	05/10/2000	mjo	SW 8260B

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## ANALYTICAL REPORT

Ms. Emily Bell  
STS CONSULTANTS, LTD  
750 Corporate Woods  
Parkway  
Vernon Hills, IL 60061-3153

05/22/2000  
Sample No. : 579049  
Job No.: 00.04715

Sample Description: T-5 Deep  
31095-XH

Date Taken: 05/05/2000  
Time Taken:

Date Received: 05/05/2000  
Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Surr: Bromofluorobenzene	94.0	%		62-127	05/10/2000	mjo	SW 8260B
Method 5035 Sample Weight	5.63		grams		05/10/2000	mjo	SW 5035
<b>ALCOHOL COMPOUNDS</b>							
Butyl Alcohol	<13		mg/kg dw	13	05/19/2000	mkp	SW 8000
TCLP - Chloride	<5		mg/L	5.0	05/16/2000	lmf	SW 9251
TCLP - Cyanide	<0.005		mg/L	0.005	05/09/2000	kmb	SW 9012A
TCLP - Fluoride, ISE	0.07		mg/L	0.10	05/17/2000	lmf	EPA 340.2
TCLP - Nitrate	<1.0		mg/L	1.0	05/12/2000	aks	SM 4500NO3
TCLP - Sulfate	<10		mg/L	10	05/16/2000	mas	EPA 375.4
TCLP Prep	COMPLETE			COMPLETE	05/09/2000	kmb	SW 1311

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579050  
 Job No.: 00.04715

Sample Description: T-1 Surface  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	93.3		%	0.1	05/15/2000	pjf	SM 2540
TCLP Metals Extraction	Leached				05/09/2000	kmb	SW 1311
TCLP-Antimony, GFAA	<0.020		mg/L	0.020	05/15/2000	jap	SW 7041
TCLP-Arsenic, GFAA	<0.100		mg/L	0.0050	05/15/2000	jap	SW 7061
TCLP-Barium, ICP	0.787		mg/L	0.020	05/19/2000	mkp	SW 6010B
TCLP-Beryllium, ICP	<0.0050		mg/L	0.0050	05/19/2000	mkp	SW 6010B
TCLP-Boron, ICP	<0.050		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Cadmium, ICP	0.023		mg/L	0.010	05/19/2000	mkp	SW 6010B
TCLP-Chromium, ICP	<0.040		mg/L	0.040	05/19/2000	mkp	SW 6010B
TCLP-Cobalt, ICP	<0.10		mg/L	0.10	05/19/2000	mkp	SW 6010B
TCLP-Copper, ICP	<0.020		mg/L	0.020	05/19/2000	mkp	SW 6010B
TCLP-Iron, ICP	<0.050		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Lead, GFAA	0.458		mg/L	0.0050	05/15/2000	jap	SW 7421
TCLP-Manganese, ICP	0.938		mg/L	0.010	05/19/2000	mkp	SW 6010B
TCLP-Mercury, CVAA	<0.0002		mg/L	0.0002	05/15/2000	vgm	SW 7470A
TCLP-Nickel, ICP	<0.050		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Selenium, GFAA	<0.100		mg/L	0.0050	05/15/2000	jap	SW 7740
TCLP-Thallium, GFAA	<0.010		mg/L	0.010	05/15/2000	jap	SW 7841
TCLP-Zinc, ICP	6.85		mg/L	0.020	05/19/2000	mkp	SW 6010B
PREP, BN Nonaqueous	extracted				05/11/2000	jjh	SW 3550B
PREP, Acid Ext. Nonaqueous	extracted				05/11/2000	jjh	SW 3550B

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579050  
 Job No.: 00.04715

Sample Description: T-1 Surface  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
<b>ACID CMPDS - 8270 NONAQUEOUS</b>							
4-Chloro-3-methylphenol	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
2-Chlorophenol	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
2,4-Dichlorophenol	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
2,4-Dimethylphenol	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
2,4-Dinitrophenol	<1,710		ug/kg dw	1,710	05/15/2000	keh	SW 8270C
2-Methyl-4,6-dinitrophenol	<1,710		ug/kg dw	1,710	05/15/2000	keh	SW 8270C
2-Nitrophenol	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
4-Nitrophenol	<1,710		ug/kg dw	1,710	05/15/2000	keh	SW 8270C
Pentachlorophenol	<1,710		ug/kg dw	1,710	05/15/2000	keh	SW 8270C
Phenol	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
2,4,6-Trichlorophenol	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
<b>BASE/NEUTRALS-8270 NONAQUEOUS</b>							
Acenaphthene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Acenaphthylene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Anthracene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Benzo(a)anthracene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Benzo(b)fluoranthene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Benzo(k)fluoranthene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Benzo(g,h,i)perylene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Benzo(a)pyrene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Benzyl butyl phthalate	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Bis(2-chloroethoxy)methane	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Bis(2-chloroethyl)ether	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Bis(2-chloroisopropyl)ether	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Bis(2-ethylhexyl)phthalate	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000

Sample No. : 579050

Job No.: 00.04715

Sample Description: T-1 Surface  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
4-Bromophenyl phenyl ether	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
2-Chloronaphthalene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
4-Chlorophenyl phenyl ether	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Chrysene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Dibenzo(a,h)anthracene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Di-n-butyl phthalate	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
1,2-Dichlorobenzene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
1,3-Dichlorobenzene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
1,4-Dichlorobenzene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
3,3'-Dichlorobenzidine	<707		ug/kg dw	707	05/15/2000	keh	SW 8270C
Diethyl phthalate	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Dimethyl phthalate	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
2,4-Dinitrotoluene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
2,6-Dinitrotoluene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Di-n-octyl phthalate	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Fluoranthene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Fluorene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Hexachlorobenzene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Hexachlorobutadiene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Hexachlorocyclopentadiene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Hexachloroethane	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Indeno(1,2,3-cd)pyrene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Isophorone	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Naphthalene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Nitrobenzene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
N-Nitrosodimethylamine	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
N-Nitrosodi-n-propylamine	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579050  
 Job No.: 00.04715

Sample Description: T-1 Surface  
 31095-XH

Date Taken: 05/04/2000 Date Received: 05/05/2000  
 Time Taken: Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
N-Nitrosodiphenylamine	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Phenanthrene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Pyrene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
1,2,4-Trichlorobenzene	<354		ug/kg dw	354	05/15/2000	keh	SW 8270C
Surr: Phenol-d6	69.0	‡		2-112	05/15/2000	keh	SW 8270C
Surr: 2-Fluorophenol	66.0	‡		20-100	05/15/2000	keh	SW 8270C
Surr: Nitrobenzene-d5	79.0	‡		34-109	05/15/2000	keh	SW 8270C
Surr: 2-Fluorobiphenyl	74.0	‡		32-107	05/15/2000	keh	SW 8270C
Surr: Terphenyl-d14	76.0	‡		27-118	05/15/2000	keh	SW 8270C
Surr: 2,4,6-Tribromophenol	71.5	‡		26-120	05/15/2000	keh	SW 8270C
<b>ALCOHOL COMPOUNDS</b>							
Butyl Alcohol	<11		mg/kg dw	11	05/19/2000	mkp	SW 8000
TCLP - Chloride	6		mg/L	5.0	05/16/2000	lmf	SW 9251
TCLP - Cyanide	<0.005		mg/L	0.005	05/09/2000	kmb	SW 9012A
TCLP - Fluoride, ISE	0.44		mg/L	0.10	05/17/2000	lmf	EPA 340.2
TCLP - Nitrate	<1.0		mg/L	1.0	05/12/2000	aks	SM 4500NO3
TCLP - Sulfate	<10		mg/L	10	05/16/2000	mas	EPA 375.4
TCLP Prep	COMPLETE			COMPLETE	05/09/2000	kmb	SW 1311

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579051  
 Job No.: 00.04715

Sample Description: T-2 Surface  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	96.4	%		0.1	05/15/2000	pjf	SM 2540
TCLP Metals Extraction	Leached				05/09/2000	kmb	SW 1311
TCLP-Antimony, GFAA	0.041		mg/L	0.020	05/15/2000	jap	SW 7041
TCLP-Arsenic, GFAA	<0.100		mg/L	0.0050	05/15/2000	jap	SW 7061
TCLP-Barium, ICP	0.448		mg/L	0.020	05/19/2000	mkp	SW 6010B
TCLP-Beryllium, ICP	<0.0050		mg/L	0.0050	05/19/2000	mkp	SW 6010B
TCLP-Boron, ICP	0.640		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Cadmium, ICP	0.067		mg/L	0.010	05/19/2000	mkp	SW 6010B
TCLP-Chromium, ICP	<0.040		mg/L	0.040	05/19/2000	mkp	SW 6010B
TCLP-Cobalt, ICP	<0.10		mg/L	0.10	05/19/2000	mkp	SW 6010B
TCLP-Copper, ICP	0.530		mg/L	0.020	05/19/2000	mkp	SW 6010B
TCLP-Iron, ICP	1.40		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Lead, GFAA	0.207		mg/L	0.0050	05/15/2000	jap	SW 7421
TCLP-Manganese, ICP	4.93		mg/L	0.010	05/19/2000	mkp	SW 6010B
TCLP-Mercury, CVAA	<0.0002		mg/L	0.0002	05/15/2000	vgm	SW 7470A
TCLP-Nickel, ICP	0.170		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Selenium, GFAA	<0.100		mg/L	0.0050	05/15/2000	jap	SW 7740
TCLP-Thallium, GFAA	<0.010		mg/L	0.010	05/15/2000	jap	SW 7841
TCLP-Zinc, ICP	31.3		mg/L	0.020	05/19/2000	mkp	SW 6010B
PREP, BN Nonaqueous	extracted				05/11/2000	jjh	SW 3550B
PREP, Acid Ext. Nonaqueous	extracted				05/11/2000	jjh	SW 3550B

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000

Sample No. : 579051

Job No.: 00.04715

Sample Description: T-2 Surface  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
<b>ACID CMPDS - 8270 NONAQUEOUS</b>							
4-Chloro-3-methylphenol	<1,000	ELV	ug/kg dw	342	05/16/2000	keh	SW 8270C
2-Chlorophenol	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
2,4-Dichlorophenol	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
2,4-Dimethylphenol	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
2,4-Dinitrophenol	<5,000		ug/kg dw	1,660	05/16/2000	keh	SW 8270C
2-Methyl-4,6-dinitrophenol	<5,000		ug/kg dw	1,660	05/16/2000	keh	SW 8270C
2-Nitrophenol	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
4-Nitrophenol	<5,000		ug/kg dw	1,660	05/16/2000	keh	SW 8270C
Pentachlorophenol	<5,000		ug/kg dw	1,660	05/16/2000	keh	SW 8270C
Phenol	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
2,4,6-Trichlorophenol	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
<b>BASE/NEUTRALS-8270 NONAQUEOUS</b>							
Acenaphthene	<1,000	ELV	ug/kg dw	342	05/16/2000	keh	SW 8270C
Acenaphthylene	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
Anthracene	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
Benzo(a)anthracene	1,240		ug/kg dw	342	05/16/2000	keh	SW 8270C
Benzo(b)fluoranthene	1,760		ug/kg dw	342	05/16/2000	keh	SW 8270C
Benzo(k)fluoranthene	1,240		ug/kg dw	342	05/16/2000	keh	SW 8270C
Benzo(g,h,i)perylene	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
Benzo(a)pyrene	1,240		ug/kg dw	342	05/16/2000	keh	SW 8270C
Benzyl butyl phthalate	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
Bis(2-chloroethoxy)methane	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
Bis(2-chloroethyl)ether	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
Bis(2-chloroisopropyl)ether	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
Bis(2-ethylhexyl)phthalate	2,280		ug/kg dw	342	05/16/2000	keh	SW 8270C

ELV : Elevated reporting limits due to matrix interference.

## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579051  
 Job No.: 00.04715

Sample Description: T-2 Surface  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
4-Bromophenyl phenyl ether	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
2-Chloronaphthalene	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
4-Chlorophenyl phenyl ether	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
Chrysene	1,560		ug/kg dw	342	05/16/2000	keh	SW 8270C
Dibenzo(a,h)anthracene	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
Di-n-butyl phthalate	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
1,2-Dichlorobenzene	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
1,3-Dichlorobenzene	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
1,4-Dichlorobenzene	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
3,3'-Dichlorobenzidine	<2,100		ug/kg dw	685	05/16/2000	keh	SW 8270C
Diethyl phthalate	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
Dimethyl phthalate	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
2,4-Dinitrotoluene	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
2,6-Dinitrotoluene	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
Di-n-octyl phthalate	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
Fluoranthene	2,490		ug/kg dw	342	05/16/2000	keh	SW 8270C
Fluorene	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
Hexachlorobenzene	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
Hexachlorobutadiene	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
Hexachlorocyclopentadiene	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
Hexachloroethane	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
Indeno(1,2,3-cd)pyrene	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
Isophorone	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
Naphthalene	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
Nitrobenzene	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
N-Nitrosodimethylamine	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
N-Nitrosodi-n-propylamine	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000

Sample No. : 579051

Job No.: 00.04715

Sample Description: T-2 Surface  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
N-Nitrosodiphenylamine	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
Phenanthrene	1,350		ug/kg dw	342	05/16/2000	keh	SW 8270C
Pyrene	2,070		ug/kg dw	342	05/16/2000	keh	SW 8270C
1,2,4-Trichlorobenzene	<1,000		ug/kg dw	342	05/16/2000	keh	SW 8270C
Surr: Phenol-d6	110.0		%	2-112	05/16/2000	keh	SW 8270C
Surr: 2-Fluorophenol	100.5	RM	%	20-100	05/16/2000	keh	SW 8270C
Surr: Nitrobenzene-d5	94.0		%	34-109	05/16/2000	keh	SW 8270C
Surr: 2-Fluorobiphenyl	106.0		%	32-107	05/16/2000	keh	SW 8270C
Surr: Terphenyl-d14	93.0		%	27-118	05/16/2000	keh	SW 8270C
Surr: 2,4,6-Tribromophenol	33.0		%	26-120	05/16/2000	keh	SW 8270C
ALCOHOL COMPOUNDS							
Butyl Alcohol	<10		mg/kg dw	10	05/19/2000	mkp	SW 8000
TCLP - Chloride	<5		mg/L	5.0	05/16/2000	lmf	SW 9251
TCLP - Cyanide	<0.005		mg/L	0.005	05/09/2000	kmb	SW 9012A
TCLP - Fluoride, ISE	0.89		mg/L	0.10	05/17/2000	lmf	EPA 340.2
TCLP - Nitrate	<10	MX	mg/L	1.0	05/12/2000	aks	SM 4500NO3
TCLP - Sulfate	<10		mg/L	10	05/16/2000	mas	EPA 375.4
TCLP Prep	COMPLETE			COMPLETE	05/09/2000	kmb	SW 1311

MX : Dilution required due to sample matrix; analyte is not detected.

RM: Surrogate outside acceptance limits due to matrix interference.

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000

Sample No. : 579052

Job No.: 00.04715

Sample Description: T-3 Surface  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	92.5	%		0.1	05/15/2000	pjf	SM 2540
TCLP Metals Extraction	Leached				05/09/2000	kmb	SW 1311
TCLP-Antimony, GFAA	<0.020	mg/L		0.020	05/15/2000	jap	SW 7041
TCLP-Arsenic, GFAA	<0.100	mg/L		0.0050	05/15/2000	jap	SW 7061
TCLP-Barium, ICP	1.09	mg/L		0.020	05/19/2000	mkp	SW 6010B
TCLP-Beryllium, ICP	<0.0050	mg/L		0.0050	05/19/2000	mkp	SW 6010B
TCLP-Boron, ICP	0.140	mg/L		0.050	05/19/2000	mkp	SW 6010B
TCLP-Cadmium, ICP	0.048	mg/L		0.010	05/19/2000	mkp	SW 6010B
TCLP-Chromium, ICP	<0.040	mg/L		0.040	05/19/2000	mkp	SW 6010B
TCLP-Cobalt, ICP	<0.10	mg/L		0.10	05/19/2000	mkp	SW 6010B
TCLP-Copper, ICP	0.270	mg/L		0.020	05/19/2000	mkp	SW 6010B
TCLP-Iron, ICP	0.630	mg/L		0.050	05/19/2000	mkp	SW 6010B
TCLP-Lead, GFAA	0.0298	mg/L		0.0050	05/15/2000	jap	SW 7421
TCLP-Manganese, ICP	2.29	mg/L		0.010	05/19/2000	mkp	SW 6010B
TCLP-Mercury, CVAA	<0.0002	mg/L		0.0002	05/15/2000	vgm	SW 7470A
TCLP-Nickel, ICP	0.080	mg/L		0.050	05/19/2000	mkp	SW 6010B
TCLP-Selenium, GFAA	<0.100	mg/L		0.0050	05/15/2000	jap	SW 7740
TCLP-Thallium, GFAA	<0.010	mg/L		0.010	05/15/2000	jap	SW 7841
TCLP-Zinc, ICP	12.2	mg/L		0.020	05/19/2000	mkp	SW 6010B
PREP, BN Nonaqueous	extracted				05/11/2000	jjh	SW 3550B
PREP, Acid Ext. Nonaqueous	extracted				05/11/2000	jjh	SW 3550B

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579052  
 Job No.: 00.04715

Sample Description: T-3 Surface  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
<b>ACID CMPDS - 8270 NONAQUEOUS</b>							
4-Chloro-3-methylphenol	<14,000	ELV	ug/kg dw	357	05/16/2000	keh	SW 8270C
2-Chlorophenol	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
2,4-Dichlorophenol	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
2,4-Dimethylphenol	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
2,4-Dinitrophenol	<66,000		ug/kg dw	1,730	05/16/2000	keh	SW 8270C
2-Methyl-4,6-dinitrophenol	<66,000		ug/kg dw	1,730	05/16/2000	keh	SW 8270C
2-Nitrophenol	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
4-Nitrophenol	<66,000		ug/kg dw	1,730	05/16/2000	keh	SW 8270C
Pentachlorophenol	<66,000		ug/kg dw	1,730	05/16/2000	keh	SW 8270C
Phenol	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
2,4,6-Trichlorophenol	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
<b>BASE/NEUTRALS-8270 NONAQUEOUS</b>							
Acenaphthene	<14,000	ELV	ug/kg dw	357	05/16/2000	keh	SW 8270C
Acenaphthylene	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Anthracene	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Benzo(a)anthracene	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Benzo(b)fluoranthene	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Benzo(k)fluoranthene	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Benzo(g,h,i)perylene	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Benzo(a)pyrene	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Benzyl butyl phthalate	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Bis(2-chloroethoxy)methane	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Bis(2-chloroethyl)ether	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Bis(2-chloroisopropyl)ether	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Bis(2-ethylhexyl)phthalate	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C

ELV : Elevated reporting limits due to matrix interference.

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000

Sample No. : 579052

Job No.: 00.04715

Sample Description: T-3 Surface  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
4-Bromophenyl phenyl ether	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
2-Chloronaphthalene	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
4-Chlorophenyl phenyl ether	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Chrysene	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Dibenzo(a,h)anthracene	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Di-n-butyl phthalate	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
1,2-Dichlorobenzene	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
1,3-Dichlorobenzene	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
1,4-Dichlorobenzene	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
3,3'-Dichlorobenzidine	<27,000		ug/kg dw	714	05/16/2000	keh	SW 8270C
Diethyl phthalate	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Dimethyl phthalate	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
2,4-Dinitrotoluene	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
2,6-Dinitrotoluene	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Di-n-octyl phthalate	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Fluoranthene	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Fluorene	17,300		ug/kg dw	357	05/16/2000	keh	SW 8270C
Hexachlorobenzene	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Hexachlorobutadiene	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Hexachlorocyclopentadiene	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Hexachloroethane	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Indeno(1,2,3-cd)pyrene	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Isophorone	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Naphthalene	31,400		ug/kg dw	357	05/16/2000	keh	SW 8270C
Nitrobenzene	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
N-Nitrosodimethylamine	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
N-Nitrosodi-n-propylamine	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C

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## **ANALYTICAL REPORT**

Ms. Emily Bell  
STS CONSULTANTS, LTD.  
750 Corporate Woods  
Parkway  
Vernon Hills, IL 60061-3153

05/22/2000

Sample No. : 579052

Job No.: 00.04715

Sample Description: T-3 Surface  
31095-XH

Date Taken: 05/04/2000  
Time Taken:

Date Received: 05/05/2000  
Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
N-Nitrosodiphenylamine	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Phenanthrene	33,500		ug/kg dw	357	05/16/2000	keh	SW 8270C
Pyrene	38,900		ug/kg dw	357	05/16/2000	keh	SW 8270C
1,2,4-Trichlorobenzene	<14,000		ug/kg dw	357	05/16/2000	keh	SW 8270C
Surr: Phenol-d6	Diluted out	%		2-112	05/16/2000	keh	SW 8270C
Surr: 2-Fluorophenol	Diluted out	%		20-100	05/16/2000	keh	SW 8270C
Surr: Nitrobenzene-d5	Diluted out	%		34-109	05/16/2000	keh	SW 8270C
Surr: 2-Fluorobiphenyl	Diluted out	%		32-107	05/16/2000	keh	SW 8270C
Surr: Terphenyl-d14	Diluted out	%		27-118	05/16/2000	keh	SW 8270C
Surr: 2,4,6-Tribromophenol	Diluted out	%		26-120	05/16/2000	keh	SW 8270C
<b>ALCOHOL COMPOUNDS</b>							
Butyl Alcohol	<11		mg/kg dw	11	05/19/2000	mkp	SW 8000
TCLP - Chloride	<5		mg/L	5.0	05/16/2000	lmf	SW 9251
TCLP - Cyanide	<0.005		mg/L	0.005	05/09/2000	kmb	SW 9012A
TCLP - Fluoride, ISE	0.30		mg/L	0.10	05/17/2000	lmf	EPA 340.2
TCLP - Nitrate	1.3		mg/L	1.0	05/12/2000	aks	SM 4500NO3
TCLP - Sulfate	<10		mg/L	10	05/16/2000	mas	EPA 375.4
TCLP Prep	COMPLETE			COMPLETE	05/09/2000	kmb	SW 1311

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000

Sample No. : 579053

Job No.: 00.04715

Sample Description: T-4 Surface  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	93.3	%		0.1	05/15/2000	pjf	SM 2540
TCLP Metals Extraction	Leached				05/09/2000	kmb	SW 1311
TCLP-Antimony, GFAA	<0.020		mg/L	0.020	05/15/2000	jap	SW 7041
TCLP-Arsenic, GFAA	<0.100		mg/L	0.0050	05/15/2000	jap	SW 7061
TCLP-Barium, ICP	0.861		mg/L	0.020	05/19/2000	mkp	SW 6010B
TCLP-Beryllium, ICP	<0.0050		mg/L	0.0050	05/19/2000	mkp	SW 6010B
TCLP-Boron, ICP	0.120		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Cadmium, ICP	0.017		mg/L	0.010	05/19/2000	mkp	SW 6010B
TCLP-Chromium, ICP	<0.040		mg/L	0.040	05/19/2000	mkp	SW 6010B
TCLP-Cobalt, ICP	<0.10		mg/L	0.10	05/19/2000	mkp	SW 6010B
TCLP-Copper, ICP	<0.020		mg/L	0.020	05/19/2000	mkp	SW 6010B
TCLP-Iron, ICP	2.35		mg/L	0.050	05/19/2000	mkp	SW 7421
TCLP-Lead, GFAA	<0.200		mg/L	0.0050	05/15/2000	jap	SW 6010B
TCLP-Manganese, ICP	3.10		mg/L	0.010	05/19/2000	mkp	SW 7470A
TCLP-Mercury, CVAA	<0.0002		mg/L	0.0002	05/15/2000	vgm	SW 6010B
TCLP-Nickel, ICP	0.130		mg/L	0.050	05/19/2000	mkp	SW 7740
TCLP-Selenium, GFAA	<0.100		mg/L	0.0050	05/15/2000	jap	SW 7841
TCLP-Thallium, GFAA	<0.010		mg/L	0.010	05/15/2000	jap	SW 6010B
TCLP-Zinc, ICP	2.42		mg/L	0.020	05/19/2000	mkp	SW 6010B
PREP, BN Nonaqueous	extracted				05/11/2000	jjh	SW 3550B
PREP, Acid Ext. Nonaqueous	extracted				05/11/2000	jjh	SW 3550B

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000

Sample No. : 579053

Job No.: 00.04715

Sample Description: T-4 Surface  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
<b>ACID CMPDS - 8270 NONAQUEOUS</b>							
4-Chloro-3-methylphenol	<5,300	ELV	ug/kg dw	354	05/16/2000	keh	SW 8270C
2-Chlorophenol	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
2,4-Dichlorophenol	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
2,4-Dimethylphenol	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
2,4-Dinitrophenol	<26,000		ug/kg dw	1,710	05/16/2000	keh	SW 8270C
2-Methyl-4,6-dinitrophenol	<26,000		ug/kg dw	1,710	05/16/2000	keh	SW 8270C
2-Nitrophenol	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
4-Nitrophenol	<26,000		ug/kg dw	1,710	05/16/2000	keh	SW 8270C
Pentachlorophenol	<26,000		ug/kg dw	1,710	05/16/2000	keh	SW 8270C
Phenol	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
2,4,6-Trichlorophenol	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
<b>BASE/NEUTRALS-8270 NONAQUEOUS</b>							
Acenaphthene	9,110	ELV	ug/kg dw	354	05/16/2000	keh	SW 8270C
Acenaphthylene	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Anthracene	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Benzo(a)anthracene	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Benzo(b)fluoranthene	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Benzo(k)fluoranthene	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Benzo(g,h,i)perylene	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Benzo(a)pyrene	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Benzyl butyl phthalate	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Bis(2-chloroethoxy)methane	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Bis(2-chloroethyl)ether	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Bis(2-chloroisopropyl)ether	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Bis(2-ethylhexyl)phthalate	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C

ELV : Elevated reporting limits due to matrix interference.

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000

Sample No. : 579053

Job No.: 00.04715

Sample Description: T-4 Surface  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
4-Bromophenyl phenyl ether	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
2-Chloronaphthalene	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
4-Chlorophenyl phenyl ether	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Chrysene	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Dibenzo(a,h)anthracene	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Di-n-butyl phthalate	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
1,2-Dichlorobenzene	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
1,3-Dichlorobenzene	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
1,4-Dichlorobenzene	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
3,3'-Dichlorobenzidine	<11,000		ug/kg dw	707	05/16/2000	keh	SW 8270C
Diethyl phthalate	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Dimethyl phthalate	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
2,4-Dinitrotoluene	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
2,6-Dinitrotoluene	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Di-n-octyl phthalate	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Fluoranthene	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Fluorene	10,700		ug/kg dw	354	05/16/2000	keh	SW 8270C
Hexachlorobenzene	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Hexachlorobutadiene	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Hexachlorocyclopentadiene	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Hexachloroethane	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Indeno(1,2,3-cd)pyrene	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Isophorone	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Naphthalene	7,290		ug/kg dw	354	05/16/2000	keh	SW 8270C
Nitrobenzene	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
N-Nitrosodimethylamine	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
N-Nitrosodi-n-propylamine	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579053  
 Job No.: 00.04715

Sample Description: T-4 Surface  
 31095-XH

Date Taken: 05/04/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
N-Nitrosodiphenylamine	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Phenanthrene	19,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Pyrene	6,860		ug/kg dw	354	05/16/2000	keh	SW 8270C
1,2,4-Trichlorobenzene	<5,300		ug/kg dw	354	05/16/2000	keh	SW 8270C
Surr: Phenol-d6	Diluted out	#		2-112	05/16/2000	keh	SW 8270C
Surr: 2-Fluorophenol	Diluted out	#		20-100	05/16/2000	keh	SW 8270C
Surr: Nitrobenzene-d5	Diluted out	#		34-109	05/16/2000	keh	SW 8270C
Surr: 2-Fluorobiphenyl	Diluted out	#		32-107	05/16/2000	keh	SW 8270C
Surr: Terphenyl-d14	Diluted out	#		27-118	05/16/2000	keh	SW 8270C
Surr: 2,4,6-Tribromophenol	Diluted out	#		26-120	05/16/2000	keh	SW 8270C
<b>ALCOHOL COMPOUNDS</b>							
Butyl Alcohol	<11		mg/kg dw	11	05/19/2000	mkp	SW 8000
TCLP - Chloride	<5		mg/L	5.0	05/16/2000	lmf	SW 9251
TCLP - Cyanide	<0.005		mg/L	0.005	05/09/2000	kmb	SW 9012A
TCLP - Fluoride, ISE	0.26		mg/L	0.10	05/17/2000	lmf	EPA 340.2
TCLP - Nitrate	1.2		mg/L	1.0	05/12/2000	aks	SM 4500NO3
TCLP - Sulfate	<10		mg/L	10	05/16/2000	mas	EPA 375.4
TCLP Prep	COMPLETE			COMPLETE	05/09/2000	kmb	SW 1311

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000

Sample No. : 579054

Job No.: 00.04715

Sample Description: T-5 Surface  
 31095-XH

Date Taken: 05/05/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	93.9	%		0.1	05/15/2000	pjf	SM 2540
TCLP Metals Extraction	Leached				05/09/2000	kmb	SW 1311
TCLP-Antimony, GFAA	<0.100		mg/L	0.100	05/15/2000	jap	SW 7041
TCLP-Arsenic, GFAA	<0.100		mg/L	0.0050	05/15/2000	jap	SW 7061
TCLP-Barium, ICP	0.672		mg/L	0.020	05/19/2000	mkp	SW 6010B
TCLP-Beryllium, ICP	<0.0050		mg/L	0.0050	05/19/2000	mkp	SW 6010B
TCLP-Boron, ICP	0.210		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Cadmium, ICP	0.058		mg/L	0.010	05/19/2000	mkp	SW 6010B
TCLP-Chromium, ICP	<0.040		mg/L	0.040	05/19/2000	mkp	SW 6010B
TCLP-Cobalt, ICP	<0.10		mg/L	0.10	05/19/2000	mkp	SW 6010B
TCLP-Copper, ICP	2.89		mg/L	0.020	05/19/2000	mkp	SW 6010B
TCLP-Iron, ICP	<0.050		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Lead, GFAA	33.1		mg/L	0.0050	05/15/2000	jap	SW 7421
TCLP-Manganese, ICP	2.31		mg/L	0.010	05/19/2000	mkp	SW 6010B
TCLP-Mercury, CVAA	<0.0002		mg/L	0.0002	05/15/2000	vgm	SW 7470A
TCLP-Nickel, ICP	0.890		mg/L	0.050	05/19/2000	mkp	SW 6010B
TCLP-Selenium, GFAA	<0.100		mg/L	0.0050	05/15/2000	jap	SW 7740
TCLP-Thallium, GFAA	<0.100		mg/L	0.100	05/15/2000	jap	SW 7841
TCLP-Zinc, ICP	192		mg/L	0.020	05/19/2000	mkp	SW 6010B
PREP. BN Nonaqueous	extracted				05/11/2000	jjh	SW 3550B
PREP. Acid Ext. Nonaqueous	extracted				05/11/2000	jjh	SW 3550B

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579054  
 Job No.: 00.04715

Sample Description: T-5 Surface  
 31095-XH

Date Taken: 05/05/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
<b>ACID CMPDS - 8270 NONAQUEOUS</b>							
4-Chloro-3-methylphenol	<2,600	ELV	ug/kg dw	351	05/16/2000	keh	SW 8270C
2-Chlorophenol	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
2,4-Dichlorophenol	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
2,4-Dimethylphenol	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
2,4-Dinitrophenol	<13,000		ug/kg dw	1,700	05/16/2000	keh	SW 8270C
2-Methyl-4,6-dinitrophenol	<13,000		ug/kg dw	1,700	05/16/2000	keh	SW 8270C
2-Nitrophenol	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
4-Nitrophenol	<13,000		ug/kg dw	1,700	05/16/2000	keh	SW 8270C
Pentachlorophenol	<13,000		ug/kg dw	1,700	05/16/2000	keh	SW 8270C
Phenol	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
2,4,6-Trichlorophenol	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
<b>BASE/NEUTRALS-8270 NONAQUEOUS</b>							
Acenaphthene	<2,600	ELV	ug/kg dw	351	05/16/2000	keh	SW 8270C
Acenaphthylene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Anthracene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Benzo(a)anthracene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Benzo(b)fluoranthene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Benzo(k)fluoranthene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Benzo(g,h,i)perylene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Benzo(a)pyrene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Benzyl butyl phthalate	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Bis(2-chloroethoxy)methane	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Bis(2-chloroethyl)ether	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Bis(2-chloroisopropyl)ether	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Bis(2-ethylhexyl)phthalate	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C

ELV : Elevated reporting limits due to matrix interference.

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INCORPORATED

## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579054  
 Job No.: 00.04715

Sample Description: T-5 Surface  
 31095-XH

Date Taken: 05/05/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
4-Bromophenyl phenyl ether	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
2-Chloronaphthalene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
4-Chlorophenyl phenyl ether	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Chrysene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Dibenzo(a,h)anthracene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Di-n-butyl phthalate	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
1,2-Dichlorobenzene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
1,3-Dichlorobenzene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
1,4-Dichlorobenzene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
3,3'-Dichlorobenzidine	<5,300		ug/kg dw	703	05/16/2000	keh	SW 8270C
Diethyl phthalate	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Dimethyl phthalate	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
2,4-Dinitrotoluene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
2,6-Dinitrotoluene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Di-n-octyl phthalate	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Fluoranthene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Fluorene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Hexachlorobenzene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Hexachlorobutadiene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Hexachlorocyclopentadiene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Hexachloroethane	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Indeno(1,2,3-cd)pyrene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Isophorone	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Naphthalene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Nitrobenzene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
N-Nitrosodimethylamine	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
N-Nitrosodi-n-propylamine	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C

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## ANALYTICAL REPORT

Ms. Emily Bell  
 STS CONSULTANTS, LTD  
 750 Corporate Woods  
 Parkway  
 Vernon Hills, IL 60061-3153

05/22/2000  
 Sample No. : 579054  
 Job No.: 00.04715

Sample Description: T-5 Surface  
 31095-XH

Date Taken: 05/05/2000  
 Time Taken:

Date Received: 05/05/2000  
 Time Received: 16:30

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
N-Nitrosodiphenylamine	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Phenanthrene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Pyrene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
1,2,4-Trichlorobenzene	<2,600		ug/kg dw	351	05/16/2000	keh	SW 8270C
Surr: Phenol-d6	124.5	RM	%	2-112	05/16/2000	keh	SW 8270C
Surr: 2-Fluorophenol	109.5	RM	%	20-100	05/16/2000	keh	SW 8270C
Surr: Nitrobenzene-d5	96.0		%	34-109	05/16/2000	keh	SW 8270C
Surr: 2-Fluorobiphenyl	110.0	RM	%	32-107	05/16/2000	keh	SW 8270C
Surr: Terphenyl-d14	92.0		%	27-118	05/16/2000	keh	SW 8270C
Surr: 2,4,6-Tribromophenol	103.5		%	26-120	05/16/2000	keh	SW 8270C
ALCOHOL COMPOUNDS							
Butyl Alcohol	<11		mg/kg dw	11	05/19/2000	mkp	SW 8000
TCLP - Chloride	<5		mg/L	5.0	05/16/2000	lmf	SW 9251
TCLP - Cyanide	<0.005		mg/L	0.005	05/09/2000	kmb	SW 9012A
TCLP - Fluoride, ISE	0.24		mg/L	0.10	05/17/2000	lmf	EPA 340.2
TCLP - Nitrate	1.1		mg/L	1.0	05/12/2000	aks	SM 4500NO3
TCLP - Sulfate	<10		mg/L	10	05/16/2000	mas	EPA 375.4
TCLP Prep	COMPLETE			COMPLETE	05/09/2000	kmb	SW 1311

RM: Surrogate outside acceptance limits due to matrix interference.

TestAmerica, Bartlett Division  
KEY TO ABBREVIATIONS AND METHOD REFERENCES  
INCORPORATED

- < : Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
- mg/L : Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
- ug/g : Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
- ug/L : Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
- ug/Kg : Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
- TCLP : These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
- Surrogate : These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
- % : Percent; To convert ppm to %, divide the result by 10,000.  
To convert % to ppm, multiply the result by 10,000.
- ICP : Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
- AA : Indicates analysis was performed using Atomic Absorption Spectroscopy.
- GFAA : Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
- PQL : Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Method References

- (1) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.
- (2) ASTM "American Society for Testing Materials"
- (3) Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.
- (4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.
- (5) Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.
- (6) Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
- (7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.
- (8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.
- (9) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.
- (10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.

**TESTAMERICA INC.**

*Chain of Custody Record*

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